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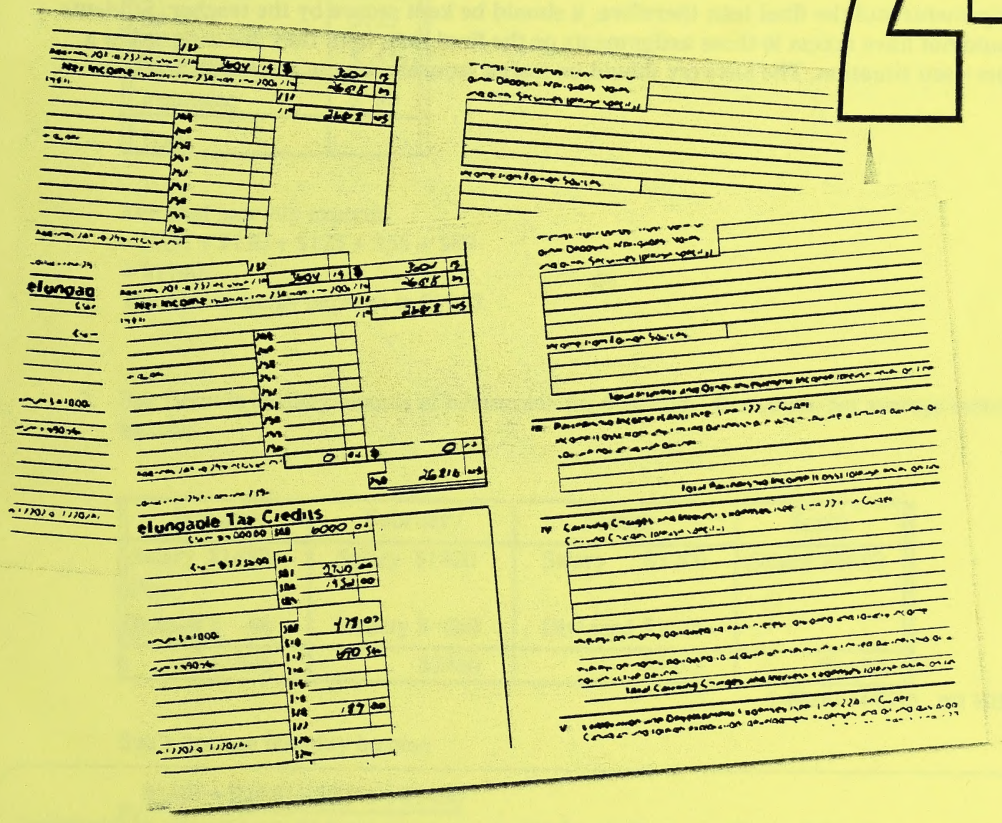
MATHEMATICS 24

LEARNING FACILITATOR'S MANUAL
MODULE 8



Distance Learning

Alberta
EDUCATION

Note

This Mathematics Learning Facilitator's Manual contains answers to teacher-assessed assignments and the final test; therefore, it should be kept secure by the teacher. Students should not have access to these assignments or the final tests until they are assigned in a supervised situation. The answers should be stored securely by the teacher at all times.

ISBN No. 0-7741-0028-1

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Topic 1: Making a Budget

(2) 1. Below is a chart showing records of monthly expenses. Determine the total monthly expense.

Monthly Fixed Expenses

Rent	$750
Truck payment	$130
Savings	$125
Furniture	$ 55
Insurance	$ 80
Total	

The total monthly expense
= $750 + $130 + $125 + $55 + $80
= $1140
The total monthly expense is $1140.

(4) 2. Sue Grant is keeping records of her income for 4 months. Determine her average monthly income.

January	February	March	April
Salary $1650	Salary $1800	Salary $1200	Salary $1450
Pop Bottles $ 46	Lottery $ 660	Dividend $1075	
$1696	$2460	$2275	$1450

Sue's average monthly income

$$= \frac{\$1696 + \$2460 + \$2275 + \$1450}{4}$$

$$= \frac{\$7881}{4}$$

= $1970.25

Sue's average monthly income is $1970.25.

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④ 5. Dr. Langely has the following monthly expenses:

- office insurance = $ 550
- car insurance = $ 300
- life insurance = $1790
- building taxes = $3020
- clothing = $ 720
- employees = $ 250
- food = $ 440

Determine what percent her food expense is of her total expenses. Express your answer to two decimal places.

Dr. Langely's total monthly expenses
= $550 + $300 + $1790 + $3020 + $720 + $250 + $440
= $7070

The percent of food expense of this total expense

$$= \frac{\$440}{\$7070}$$

$$= 0.0622$$

$$= 6.22\%$$

Dr. Langely's food expense is 6.22% of her total expenses.

④ 6. Mr. Sunny has the following annual expenses in his part-time tour bus business.

- office insurance = $ 580
- bus insurance = $ 400
- liability insurance = $1620
- garage fees = $2240
- clothing = $ 780
- equipment = $3450
- fuel = $3460

Determine what percent his liability insurance expense is of his total expenses. Express your answer to two decimal places.

His total annual expenses
= $580 + $400 + $1620 + $2240 + $780 + $3450 + $3460
= $12 530

The percent of liability insurance of his total expense

$$= \frac{\$1620}{\$12\,530}$$

$$= 0.1293$$

$$= 12.93\%$$

Mr. Sunny's percent of liability insurance is 12.93%.

④ 7. Mr. and Mrs. Brimbley have a net annual income of $32 373.50. Determine the amount allocated to the rent budget for one month as indicated in the table below.
(Use 1 year = 12 months.)

Item	Percent of Budget	Monthly Budget
Rent	23.2%	
Food	20.5%	
Bus	9.0%	
Savings	4.0%	
Recreation	9.4%	
Insurance	9.1%	
Sailboat	9.0%	
Investment	15.8%	

$$\text{Rent budget for one month} = \frac{\$32\,373.50 \times 0.232}{12}$$

$$= \frac{\$7510.65}{12}$$

$$= \$625.89$$

The amount allocated to the rent budget is $625.89.

④ 8. Doug and Cathy Hetherington have a net annual income of $47 245.75. Determine the amount allocated to the rent for one month as indicated in the table below. (Use 1 year = 12 months.)

Item	Percent of Budget	Monthly Budget
Rent	26.0%	
Food	20.9%	
Bus	6.0%	
Savings	4.5%	
Recreation	7.8%	
Insurance	9.1%	
Sailboat	7.8%	
Investment	17.9%	

$$\text{The rent budget for one month} = \frac{\$47\,245.75 \times 0.26}{12}$$

$$= \frac{\$12\,283.90}{12}$$

$$= \$1023.66$$

The amount allocated to rent for one month is $1023.66.

④ 9. Zak and Heidi Kriket have a net income of $46 210.50. Determine the amount allocated to the vacation budget for one month as indicated in the table below. (Use 1 year = 12 months.)

Item	Percent of Budget	Monthly Budget
Rent	20.3%	
Food	20.3%	
Bus	9.3%	
Savings	6.0%	
Vacation	7.7%	
Insurance	8.1%	
Sailboat	6.9%	
Investment	21.4%	

Vacation budget = $0.077 \times \$46\ 210.50 = \$3558.21$

Vacation budget for one month $= \dfrac{\$3558.21}{12} = \$296.52$

The vacation budget for one month is $296.52.

Topic 1

_____ marks

Topic 2: Purchases

(2) 1. Sheila Marie pays $9.00 for 1.4 mL of perfume. Calculate the unit price for the perfume to the nearest cent.

$$\text{Unit price} = \frac{\$9.00}{1.4\text{mL}}$$
$$= \$6.43/\text{mL}$$

The unit price of the perfume is $6.43 / mL.

(2) 2. Yvette Bonafette pays $7.90 for 5.4 mL of perfume. Calculate the unit price for the perfume to the nearest cent.

$$\text{Unit price} = \frac{\$7.90}{5.4\text{mL}}$$
$$= \$1.46/\text{mL}$$

The unit price of the perfume is $1.46 / mL.

(2) 3. The regular price of one litre of oil at a local auto supply store is $2.59. This weekend they are having a sale, and the oil is discounted 36%. Determine the sale price of the oil.

Sale price of the oil
= $2.59 – (0.36 × $2.59)
= $2.59 – $0.93
= $1.66

The sale price of the oil is $1.66 / L.

(2) 4. The regular price of a new suit at a local men's store is $470.00. They are having a sale, and all clothing in the store is discounted 21%. Determine the sale price of the suit.

Sale price of the suit
= $470 – (0.21 × $470)
= $470 – $98.70
= $371.30

The sale price of the suit is $371.30.

(2) 5. The regular price of one litre of liquid soap at a local hardware store is \$3.49. This weekend they are having a sale, and the soap is discounted 33%. Determine the sale price of the soap.

Sale price of the soap
$= \$3.49 - (0.33 \times \$3.49)$
$= \$3.49 - 1.15$
$= \$2.34$

The price of soap would be \$2.34 / L.

(3) 6. Vernon wants a new radio-controlled toy car. He cannot afford the regular price of \$91.19. When they go on sale for \$65.66, he will be able to buy one. What will the rate of discount have to be in order for Vernon to acquire the car? (Answer to the nearest whole number.)

The rate of discount

$$= \frac{\text{amount of discount} \times 100}{\text{regular price}} \qquad (\text{Discount} = \$91.19 - \$65.66 = \$25.53)$$

$$= \frac{\$25.53 \times 100}{\$91.19}$$

$$= \frac{\$2553}{\$91.19}$$

$$= 27.996$$

$$= 28$$

The discount rate is 28%.

(3) 7. Lisa wants a new cassette player. She cannot afford the regular price of $81.99. When they go on sale for $55.75, she will be able to buy one. What will the rate of discount have to be in order for Lisa to acquire a cassette player? (Answer to the nearest whole number.)

The rate of discount

$$= \frac{\text{amount of discount} \times 100}{\text{regular price}} \qquad \text{(Discount = \$81.99 – \$55.75 = \$26.24)}$$

$$= \frac{\$26.24 \times 100}{\$81.99}$$

$$= \frac{\$2624}{\$81.99}$$

$$= 32.0039$$

$$= 32$$

The discount will have to be 32%.

(4) 8. Bonnie Bracket bought herself a new wardrobe for $1600 which represents a huge 40% discount off the regular price. Calculate the regular price of the clothing.

Let the regular price be x dollars.

Then $\frac{\$1600}{x} = \frac{60}{100}$.

$$60x = \$160\,000$$

$$x = \frac{\$160\,000}{60}$$

$$x = \$2666.67$$

The regular price of the clothing is $2666.67.

(4) 9. Derek just bought a new truck for \$14 100, which represented a huge 26% discount off the regular price. Calculate the regular price of the truck.

Let the regular price be x dollars.

Then $\frac{\$14\,100}{x} = \frac{74}{100}$.

$$74x = \$1\,410\,000$$

$$x = \frac{\$1\,410\,000}{74}$$

$$x = \$19\,054.05$$

The regular price of the truck would be \$19 054.05.

Topic 2

_____ marks

Topic 3: Provincial Sales Tax

③ 1. While in New Brunswick, Mark bought an AM/FM radio priced at $330.00 before sales tax. The provincial sales tax in New Brunswick is 11%. Determine how much tax Mark would have to pay to purchase the radio.

The amount of tax that Mark would pay
$= 0.11 \times \$330$
$= \$36.30.$

Since the rate of sales tax is 11%, he would have to pay $36.30 in tax.

③ 2. Kari bought a new truck and paid a total of $13 359.60 including sales tax. If the sales tax was 8.0%, how much did he pay in sales tax?

Let the price before tax is added be x dollars.

Then $\frac{108}{100} = \frac{\$13\,359.60}{x}$.

$$108x = \$1\,335\,960$$

$$x = \frac{\$1\,335\,960}{108}$$

$$x = \$12\,370$$

Amount of tax paid
$= \$13\,359.60 - \$12\,370$
$= \$989.60$

He paid $989.60 in sales tax.

(3) 3. While in Winnipeg on business, Susan bought a new dress with a retail price of $155.00. The provincial sales tax in Manitoba is 8%. Determine the total cost of the dress.

Total cost

= retail price + tax

$= \$155.00 + 0.08 \times \$155$

$= \$155.00 + \$12.40$

$= \$167.40$

Susan paid $167.40 for the dress.

(2) 4. The retail price of an electric can opener is $34.00. The sales tax is 11%. What is the total price you would pay?

Total price
$= \$34 + (0.11 \times \$34)$
$= \$34 + \$3.74$
$= \$37.74$

The total price of the can opener would be $37.74.

Topic 3

_____ marks

Topic 4: Buying Life Insurance

④ 1. Phil Brunoski is 23 years old and wants to purchase a $70 000.00 term life insurance policy. Use the table below to determine the annual premium. What is the total amount he will pay if he pays for 13 years in advance?

Annual Premium Rates per $10 000 Unit

Age Female	Age Male	Term Life	Straight Life	20-payment life	Endowment 20 Years
18	15	$ 8.70	$10.80	$15.15	$19.65
19	16	9.28	11.52	16.16	20.96
20	17	9.86	12.24	17.17	22.27
21	18	10.44	12.96	18.18	23.58
22	19	11.02	13.68	19.19	24.89
23	20	11.60	14.40	20.20	26.20
24	21	12.18	15.12	21.21	27.51
25	22	12.76	15.84	22.22	28.82
26	23	13.34	16.56	23.23	30.13
27	24	13.92	17.28	24.24	31.44
28	25	14.50	18.00	25.25	32.75
29	26	15.08	18.72	26.26	34.06
30	27	15.66	19.44	27.27	35.37
31	28	16.24	20.16	28.28	36.68
32	29	16.82	20.88	29.29	37.99
33	30	17.40	21.60	30.30	39.30

Annual premium

$$= \$13.34 \times \frac{\$70\,000}{\$10\,000}$$

$$= \$13.34 \times 7$$

$$= \$93.38$$

Amount paid in advance for 13 years
$= \$93.38 \times 13$
$= \$1213.94$

The amount paid in advance is $1213.94.

④ 2. Both Mr. and Mrs. Littlechild want to take out life insurance. Mr. Littlechild is 27 years old, and Mrs. Littlechild is 25 years old. They each want to purchase $5000.00 of endowment life insurance. Use the table below to determine what each person would pay as an annual premium.

Annual Premium Rates per $1000 Unit

Age Female	Age Male	Term Life	Straight Life	20-payment Life	Endowment 20 Years
18	15	$ 8.25	$10.65	$16.05	$21.15
19	16	8.80	11.36	17.12	22.56
20	17	9.35	12.07	18.19	23.97
21	18	9.90	12.78	19.26	25.38
22	19	10.45	13.49	20.33	26.79
23	20	11.00	14.20	21.40	28.20
24	21	11.55	14.91	22.47	29.61
25	22	12.10	15.62	23.54	31.02
26	23	12.65	16.33	24.61	32.43
27	24	13.20	17.04	25.68	33.84
28	25	13.75	17.75	26.75	35.25
29	26	14.30	18.46	27.82	36.66
30	27	14.85	19.17	28.89	38.07
31	28	15.40	19.88	29.96	39.48
32	29	15.95	20.59	31.03	40.89
33	30	16.50	21.30	32.10	42.30

Mr. Littlechild would pay
$38.07 \times 5 = \$190.35$ as an annual premium.

Mrs. Littlechild would pay
$31.02 \times 5 = \$155.10$ as an annual premium.

Mr. Littlechild would pay $190.35 and Mrs. Littlechild would pay $155.10 as an annual premium.

④ 3. Bill Longfellow is 20 years old. He has purchased a $15 000.00 straight life insurance policy. Use the table below to determine the cash-surrender value of the policy when he is 35 years old.

Cash-surrender Value and Loan Value for $1000 Life Insurance

Number of years premium paid on straight life

Age Male	Age Female	5 years	10 years	15 years	20 years	65 years
20	25	$34.00	$ 77.25	$148.75	$224.50	$620.50
25	30	40.80	92.70	178.50	269.40	574.60
30	35	47.60	108.15	208.25	314.30	528.70
35	40	54.40	123.60	238.00	359.20	482.80
40	45	61.20	139.05	267.75	404.10	436.90
45	50	68.00	154.50	297.50	449.00	391.00
50	55	74.80	169.95	327.25	493.90	345.10
55	60	81.60	185.40	357.00	538.80	299.20

The cash-surrender value
$= \$148.75 \times 15$
$= \$2231.25$

The cash-surrender value is $2231.25.

④ 4. Mary Lou Badracov is 25 years old. She has purchased a $69 000.00 straight life insurance policy. Use the table below to determine the cash-surrender value of the policy when she is 45 years old.

Cash-surrender Value and Loan Value for $1000 Life Insurance

Number of years premium paid on straight life

Age Male	Age Female	5 years	10 years	15 years	20 years	65 years
20	25	$35.25	$ 75.25	$146.50	$222.75	$614.75
25	30	42.60	90.30	175.80	267.30	567.70
30	35	49.35	105.35	205.10	311.85	520.65
35	40	56.40	120.40	234.40	356.40	473.60
40	45	63.45	135.45	263.70	400.95	426.55
45	50	70.50	150.50	293.00	445.50	379.50
50	55	77.55	165.55	322.30	490.05	332.45
55	60	84.60	180.60	351.60	534.60	285.40

The cash-surrender value
= $222.75 × 69
= $15 369.75

Mary Lou's policy will have a cash-surrender value of $15 369.75.

(5) 5. Ms. Sharon Sledz wants to purchase a $60 000.00 life insurance policy. She is 35 years of age and wants to select the plan that will give her the largest cash-surrender value when she is 50 years old. Use the tables below to determine the cash-surrender value of each type of policy.

Cash-surrender Value and Loan Value for $1000 Life Insurance

Number of years premium paid on straight life

Age Male	Age Female	5 years	10 years	15 years	20 years	65 years
20	25	$37.25	$ 76.25	$149.50	$221.50	$615.25
25	30	44.70	91.50	179.40	265.80	568.30
30	35	52.15	106.75	209.30	310.10	521.35
35	40	59.60	122.00	239.20	354.40	474.40
40	45	67.05	137.25	269.10	398.70	427.45
45	50	74.50	152.50	299.00	443.00	380.50
50	55	81.95	167.75	328.90	487.30	333.55
55	60	89.40	183.00	358.80	531.60	286.60

Number of years premium paid on 20-year insurance policy

Age Male	Age Female	5 years	10 years	15 years	20 years	65 years
20	25	$ 50.00	$135.00	$223.00	$335.75	$850.45
25	30	60.00	162.00	267.60	402.90	850.45
30	35	70.00	189.00	312.20	470.05	850.45
35	40	80.00	216.00	356.80	537.20	849.33
40	45	90.00	243.00	401.40	604.35	844.33
45	50	100.00	270.00	446.00	671.50	813.12
50	55	110.00	297.00	490.60	738.65	771.21
55	60	120.00	324.00	535.20	805.80	666.33

Cash-surrender value of a straight life policy
$= 60 \times \$209.30$
$= \$12\,558$

Cash-surrender value of a 20-year limited life policy
$= 60 \times \$312.20$
$= \$18\,732$

The cash-surrender for a straight life policy is $12 558, and for 20 years, the cash-surrender is $18 732.

(4) 6. A young couple owns a farm northeast of Edmonton. Their two children do not go to school yet. All their debts, including the mortgage on the farm and the money owed on the new equipment, come to $84 000.00. The life insurance salesperson recently talked to them and suggested they should have some life insurance. The salesperson recommended $320 000.00 of term life insurance. The yearly premium would be $1984.00. Do you think this is a good idea? Why or why not?

No. The amount of insurance is too high: the yearly premium really is a large sum of money which they cannot afford. They should have insurance which is a reasonable amount carrying with it a reasonable premium.

(4) 7. Butch Munro is a rig worker, single, with no plans to marry. He works on a cycle where he works on a rig for 6 weeks, and then comes home for 3 weeks. Butch has just purchased an expensive car and still owes $24 000.00 on it. He lives with his mom and dad when he is home from work. Do you think life insurance would be a good idea for Butch? Why or why not?

Yes. He can afford the premium and have some security in case of an emergency.

(4) 8. Marie is a young executive working in a bank. She is single and not planning to marry for at least 4 years as she wants to concentrate on her career. She has just purchased a house and has a mortgage of $17 000.00, but Marie plans to rent the house and continue to live with her parents. Do you think life insurance would be a good idea for Marie? Why or why not?

Yes, at a reasonable amount and reasonable premium, insurance would provide security.

Topic 4

_____ marks

Final Test

There are two copies of the final test: the student's copy which is perforated and designed for photocopying and possible faxing and the teacher's copy which includes a marking guide.

Note:

The student's copy of this final test should be kept secure by the teacher. Students should not have access to this test until it is assigned in a supervised situation. The answers should be stored securely and retained by the teacher at all times.

MATHEMATICS 24

FINAL TEST

GENERAL INSTRUCTIONS

1. The time limit for this test is as follows.
   Mathematics 24 for 3 credits: **$1\frac{1}{2}$ hours**
   Mathematics 24 for 5 credits: **2 hours**

2. Mathematics 24 for 3 credits consists of five units.
   Mathematics 24 for 5 credits consists of eight units.
   Check off the units that you have studied.

   _____ 1. Work - Getting Paid
   _____ 2. Work - Income Tax
   _____ 3. Banking - Savings and Chequing Accounts
   _____ 4. Banking - Borrowing Money and Using Credit Cards
   _____ 5. Transportation - Owning a Vehicle
   _____ 6. Transportation - Travelling
   _____ 7. Accommodation
   _____ 8. Cost of Independence

Complete only the portions of the test that correspond to the units you have checked off.

3. The total marks for this test are as follows.
   Mathematics 24 for 3 credits: **will vary with the units selected**
   Mathematics 24 for 5 credits: **150 marks**

4. Write all answers legibly in pen or pencil.

5. Calculators that are not programmed may be used.

6. For written response questions, be sure to show all your work. Part marks will be given for partially correct solutions.

7. It is better to complete all work which you know well first. After this you can deal with the more difficult ones. Do not spend too much time on any one problem. If you finish before the time limit, go back and check your answers.

Value UNIT 1: WORK - GETTING PAID

(1) 1. Circle the correct response.

Workers earning a percentage of the sales price of a product or service are said to be working for

A. an hourly wage

B. piece work wages

C. minimum wage

(D.) commission

(2) 2. Teresa earns \$6.25/h as a cashier at the local grocery store. Determine her straight-time pay for the following week.

Monday	Tuesday	Wednesday	Thursday	Friday
$5\frac{1}{4}$ h	$7\frac{1}{2}$ h	$6\frac{3}{4}$ h	7 h	$6\frac{1}{2}$ h

Number of hours $= 5.25 + 7.5 + 6.75 + 7 + 6.5$
$= 33\text{ h}$

Pay for the week $= \$6.25 \times 33$
$= \$206.25$

(1) 3. Ben Windslow earns \$2375.00 semimonthly as an advertising executive. What is his annual salary?

semimonthly = 24 times per year

Annual salary $= \$2375.00 \times 24$
$= \$57\,000$

Value

(1) 4. Peter earns $2.25 for each car he greases at a local service station. What is his pay for a week in which he greases 235 cars?

$$\begin{aligned}\text{Weekly wage} &= 235 \times \$2.25 \\ &= \$528.75\end{aligned}$$

(2) 5. Steve Wiley receives a $5\frac{1}{2}\%$ straight commission for selling furniture at Sofaworld. Calculate Steve's earnings for a week in which he sold $14 375.00 worth of furniture.

$$\begin{aligned}\text{Commission} &= \$14\,375 \times 0.055 \\ &= \$790.63\end{aligned}$$

(1) 6. Amanda is a lawyer for a large firm. She receives a monthly salary of $5934.00. Last month, she received a bonus of $988.00. How much did she earn last month?

$$\begin{aligned}\text{Earnings} &= \$5934.00 + \$988.00 \\ &= \$6922.00\end{aligned}$$

Value

(1) 7. Maria York earns minimum wage in St. John's, Newfoundland, as a gas station attendant. Use the following chart to determine Maria's weekly salary for a $36\frac{1}{2}$ hour week.

Province	Minimum Wage	Province	Minimum Wage
Yukon	$4.75	Quebec	$4.55
Northwest Territories	$5.00	Ontario	$4.55
British Columbia	$4.00	New Brunswick	$4.00
Alberta	$4.50	Nova Scotia	$4.00
Saskatchewan	$4.50	Newfoundland	$4.25
Manitoba	$4.70	Prince Edward Island	$4.55

$$\begin{aligned}\text{Weekly wage} &= \$4.25/\text{h} \times 36.5\ \text{h} \\ &= \$155.13\end{aligned}$$

(3) 8. Axe Handle sells motorcycles. He earns $1250 per month plus a $5\frac{1}{4}\%$ commission on all bikes he sells. In April, Axe sold $127 500.00 worth of motorcycles. Calculate his total earnings for the month.

$$\begin{aligned}\text{Total pay} &= \$1250 + 5\tfrac{1}{4}\% \times \$127\,500.00 \\ &= \$1250 + 0.0525 \times \$127\,500 \\ &= \$1250 + \$6693.75 \\ &= \$7943.75\end{aligned}$$

(2) 9. Candy Floss sells chocolates and earns $5.25 per hour, plus $0.45 for each sale she makes. On Friday, Candy worked $9\frac{1}{4}$ hours and had 38 sales. How much did Candy earn on Friday?

$$\begin{aligned}\text{Total earnings} &= \$5.25 \times 9.25 + \$0.45 \times 38 \\ &= \$48.56 + \$17.10 \\ &= \$65.66\end{aligned}$$

Value

(1) 10. Use the table below to determine the UIC premium of an employee who earns $401.65 per week.

Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*
367.88 -	368.29	8.65	398.52 -	398.93	9.37	429.15 -	429.57	10.09	459.79 -	460.21	10.81
368.30 -	368.72	8.66	398.94 -	399.36	9.38	429.58 -	429.99	10.10	460.22 -	460.63	10.82
368.73 -	369.14	8.67	399.37 -	399.78	9.39	430.00 -	430.42	10.11	460.64 -	461.06	10.83
369.15 -	369.57	8.68	399.79 -	400.21	9.40	430.43 -	430.85	10.12	461.07 -	461.48	10.84
369.58 -	369.99	8.69	400.22 -	400.63	9.41	430.86 -	431.27	10.13	461.49 -	461.91	10.85
370.00 -	370.42	8.70	400.64 -	401.06	9.42	431.28 -	431.70	10.14	461.92 -	462.34	10.86
370.43 -	370.85	8.71	401.07 -	401.48	9.43	431.71 -	432.12	10.15	462.35 -	462.76	10.87
370.86 -	371.27	8.72	401.49 -	401.91	9.44	432.13 -	432.55	10.16	462.77 -	463.19	10.88
371.28 -	371.70	8.73	401.92 -	402.34	9.45	432.56 -	432.97	10.17	463.20 -	463.61	10.89
371.71 -	372.12	8.74	402.35 -	402.76	9.46	432.98 -	433.40	10.18	463.62 -	464.04	10.90
372.13 -	372.55	8.75	402.77 -	403.19	9.47	433.41 -	433.82	10.19	464.05 -	464.46	10.91
372.56 -	372.97	8.76	403.20 -	403.61	9.48	433.83 -	434.25	10.20	464.47 -	464.89	10.92
372.98 -	373.40	8.77	403.62 -	404.04	9.49	434.26 -	434.68	10.21	464.90 -	465.31	10.93
373.41 -	373.32	8.78	404.05 -	404.46	9.50	434.69 -	435.10	10.22	465.32 -	465.74	10.94
373.83 -	374.25	8.79	404.47 -	404.89	9.51	435.11 -	435.53	10.23	465.75 -	466.17	10.95
374.26 -	374.68	8.80	404.90 -	405.31	9.52	435.54 -	435.95	10.24	466.18 -	466.59	10.96
374.69 -	375.10	8.61	405.32 -	405.74	9.53	435.96 -	436.38	10.25	466.60 -	467.02	10.97
375.11 -	375.53	8.82	405.75 -	406.17	9.54	436.39 -	436.80	10.26	467.03 -	467.44	10.98

1

UIC premium = $9.44

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Value

(1) 11. George Li earns $476.21 per week. He pays $11.19 in UIC premiums and $8.52 in CPP contributions. Calculate his taxable income.

$$\begin{aligned}\text{Taxable income} &= \$476.21 - \$11.19 - \$8.52 \\ &= \$456.50\end{aligned}$$

(1) 12. Brenda Kushner earns $508.90 per week working as a legal assistant. Use the following table to determine the amount of income tax payable each week if her net claim code is 3.

ALBERTA
WEEKLY TAX DEDUCTIONS
Basis — 52 Pay Periods per Year

TABLE 1

ALBERTA
RETENUES D'IMPÔT PAR SEMAINE
Base — 52 périodes de paie par année

WEEKLY PAY / PAIE PAR SEMAINE	IF THE EMPLOYEE'S "NET CLAIM CODE" ON FORM TD1 IS / SI LE CODE DE DEMANDE NETTE DE L'EMPLOYÉ SELON LA FORMULE TD1 EST DE										
From - De / Less than - Moins que	0	1	2	3	4	5	6	7	8	9	10
	DEDUCT FROM EACH PAY — *RETENEZ SUR CHAQUE PAIE*										
448.- 456.	114.90	80.80	77.20	70.05	62.85	55.65	47.75	39.45	31.10	22.80	14.50
456.- 464.	116.90	82.75	79.15	71.95	64.80	57.60	50.00	41.65	33.35	25.05	16.75
464.- 472.	118.95	84.70	81.10	73.90	66.75	59.55	52.25	43.90	35.60	27.30	19.00
472.- 480.	121.00	86.65	83.05	75.85	68.65	61.50	54.30	46.15	37.85	29.55	21.25
480.- 488.	123.00	88.60	85.00	77.80	70.60	63.45	56.25	48.40	40.10	31.80	23.50
488.- 496.	125.05	90.55	86.95	79.75	72.55	65.40	58.20	50.65	42.35	34.05	25.75
496.- 504.	127.10	92.50	88.90	81.70	74.50	67.30	60.15	52.90	44.60	36.30	28.00
504.- 512.	129.10	94.40	90.85	83.65	76.45	69.25	62.10	54.90	46.85	38.55	30.25
512.- 520.	131.15	96.40	92.80	85.60	78.45	71.25	64.05	56.85	49.15	40.85	32.55
520.- 528.	133.15	98.40	94.80	87.60	80.40	73.25	66.05	58.85	51.45	43.15	34.80
528.- 536.	135.65	100.80	97.20	90.00	82.80	75.65	68.45	61.25	54.05	45.90	37.60
536.- 544.	138.75	103.85	100.25	93.05	85.90	78.70	71.50	64.30	57.15	49.45	41.15
544.- 552.	141.85	106.90	103.30	96.15	88.95	81.75	74.55	67.40	60.20	53.00	44.70
552.- 560.	144.95	110.00	106.40	99.20	92.00	84.80	77.65	70.45	63.25	56.05	48.20
560.- 568.	148.05	113.05	109.45	102.25	95.05	87.90	80.70	73.50	66.30	59.15	51.75

1

Income tax payable = **$83.65**

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Value

(2) 13. John Smith earned an annual salary of $24 269.00, before deductions, in 1988. Calculate his CPP contibutions for 1988. Remember, all wage earners pay 2% of their earnings which exceed $2600 for CPP contributions to a maximum contribution of $478.00.

CPP contributions = 2% ($24 269.00 – $2600.00)
= 0.02 ($21 669.00)
= $433.38

(2) 14. Use the following cheque stub to determine Patti's net earnings.

Speedy Rental
P.O. Box 1234
Anywhere, AB
P3A 3X5

Payroll Department

EARNINGS

empl. no.	pay period ending	reg. hrs.	O.T. hrs.	reg. pay	O.T. pay	total earnings
838	10-9-86	39	6	$683.38	$213.00	$896.38

DEDUCTIONS

Federal Tax	CPP	Union Dues	UIC	Hospital Medical	Group Ins.	Bonds	Charity	Net earnings
$268.91	$12.00	$20	$21.06	$14.20	$5.60	$20.00	$3.10	

Net earnings = $896.38 – ($2268.91 + $12.00 + $20.00 + $21.06 + $14.20 + $5.60 + $20.00 + $3.10)
= $896.38 – $364.87
= $531.51

UNIT 1

_____ Marks

[1] Revenue Canada. All tables are reprinted with permission of the Minister of Supply and Services Canada.

Value **UNIT 2: INCOME**

(3) 1. Complete the T4 slip using the information that follows.

Name	Terry Morris
Province	Alberta
Employer	Ace Accounting
Salary	$18 024.75
Interest free loan	$ 1220.00
Car – personal	$ 615.00
CPP	$ 476.00
UIC	$ 586.00
Donations	$ 100.00
Tax deducted	$ 4506.19

Revenue Canada Taxation / Revenu Canada Impôt

T4-1988 Supplementary / *Supplémentaire*

STATEMENT OF REMUNERATION PAID / *ÉTAT DE LA RÉMUNÉRATION PAYÉE* 13-343-025

(C) EMPLOYMENT INCOME BEFORE DEDUCTIONS / *REVENUS D'EMPLOI AVANT RETENUES*	(D) EMPLOYEE'S PENSION CONTRIBUTION CANADA PLAN / *DU CANADA*	QUEBEC PLAN / *DU QUÉBEC*	(E) U.I. PREMIUM / *PRIME D'A. - C.*	(F) REGISTERED PENSION PLAN CONTRIBUTION / *COTISATIONS RÉGIME ENREGISTRÉ DE PENSIONS*	(G) INCOME TAX DEDUCTED / *IMPÔT SUR LE REVENU RETENU*	(H) U.I. INSURABLE EARNINGS / *GAINS ASSURABLES A. - C.*	(I) C.P.P. PENSIONABLE EARNINGS / *GAINS OUVRANT DROIT À PENSIONS - R.P.C.*	(J) EXEMPT C.P.P./Q.P.P. / U.I. RPC/RRQ / A - C / *EXONÉRATION*
→ 19859 75	476 00		586 00		4506 19			

BOX (C) AMOUNT ALREADY INCLUDES ANY AMOUNTS IN BOXES (K) (L) (M) (N) (O) AND (P) / *LE MONTANT DE LA CASE (C) COMPREND DÉJÀ TOUS LES MONTANTS DES CASES (K) (L) (M) (N) (O) ET (P)*	TAXABLE ALLOWANCES AND BENEFITS / *AVANTAGES IMPOSABLES*	(K) HOUSING BOARD AND LODGING / *LOGEMENT PENSION ET LOGEMENT*	(L) TRAVEL IN A PRESCRIBED AREA / *VOYAGE DANS UNE RÉGION VISÉE PAR RÉGLEMENT*	(M) PERSONAL USE OF EMPLOYER'S AUTO / *USAGE PERSONNEL DE L'AUTO DE L'EMPLOYEUR*	(N) INTEREST FREE AND LOW INTEREST LOANS / *PRÊTS SANS INTÉRÊT OU À FAIBLE INTÉRÊT*	(O) OTHER TAXABLE ALLOW. AND BENEFITS / *AUTRES AVANTAGES IMPOSABLES*	(P) EMPLOYMENT COMMISSIONS / *COMMISSIONS D'EMPLOI*
	▶			615 00	1220 00		

(Q) UNION DUES / *COTISATIONS SYNDICALES*	(R) CHARITABLE DONATIONS / *DONS DE CHARITÉ*	(S) PAYMENTS TO DPSP / *PAIEMENTS À UN RPDB*	(T) PENSION PLAN OR DEFERRED PROFIT SHARING PLAN REGISTRATION NUMBER / *N° ENREGISTREMENT DE RÉGIME DE PENSION OU DE PARTICIPATION DIFFÉRÉE AUX BÉNÉFICES*	(A) PROVINCE OF EMPLOYMENT / *PROVINCE D'EMPLOI*	(B) SOCIAL INSURANCE NUMBER / *N° D'ASSURANCE SOCIALE*
	100 00				

EMPLOYEE: SURNAME FIRST (in capital letters), USUAL FIRST NAME AND INITIALS AND FULL ADDRESS / *EMPLOYÉ: NOM DE FAMILLE D'ABORD (en capitales), PRÉNOM USUEL ET ADRESSE COMPLÈTE*

SURNAME / *NOM DE FAMILLE* — USUAL FIRST NAME AND INITIALS - *PRÉNOM USUEL*

→ Morris, Terry

FOOTNOTES: / *NOTES:*

EMPLOYER NAME / *NOM DE L'EMPLOYEUR*: Ace Accounting

ACCOUNT NUMBER / *NUMÉRO DE COMPTE*

EMPLOYEE NO. / *N° DE L'EMPLOYÉ*

TO BE RETURNED WITH T4 - T4A SUMMARY / *À RETOURNER AVEC LA T4 - T4A SOMMAIRE*

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Value

(3) 2. Use the following section of the T1 General to calculate your total income given the following:

- total income from Box C of T4 slip = $35 087.50
- family allowance = $776.00
- interest income = $283.65
- net rental income = $3360.00
- income from a part-time job = $1284.30

Step 2 - Calculation of Total Income

Please do not use this area

Employment Income	Employment income before deductions from Box (C) on all T4 slips (attach copy 2 of T4 slips)	101	35 087	50	⊙
	Commissions from Box (P) on all T4 slips, included in above total 102				
	Other employment income including training allowances, tips and gratuities, etc. (please specify) BARTENDER WAGES	104	1284	30	⊙
	Total employment earnings (add lines 101 and 104)	105	36371	80	
Pension Income	Old Age Security pension (attach copy of T4A(OAS) slip)	113			⊙
	Canada or Quebec Pension Plan benefits (attach copy 2 of T4A(P) slip)	114			⊙
	Other pensions or superannuation (attach copy 3 of T4A slips)	115			⊙
Income from Other Sources	Taxable family allowance payments (attach copy of TFA1 slip)	118	776	00	⊙
	Unemployment Insurance benefits (attach copy 2 of T4U slip)	119			⊙
	Taxable amount of dividends from taxable Canadian corporations (attach completed Schedule 4)	120			⊙
	Interest and other investment income (attach completed Schedule 4)	121	283	65	⊙
	Partnership income - limited or non-active partners only (attach completed Schedule 4) Net	122			⊙
	Rental income Gross 160 Net	126	3360	00	⊙
	Taxable capital gains (attach completed Schedule 3)	127			
	Alimony or separation allowance income	128			⊙
	Registered retirement savings plan income (attach T4RSP slips)	129			⊙
	Other income (please specify)	130			⊙
Self-Employment Income	Business income Gross 162 Net	135			⊙
	Professional income Gross 164 Net	137			⊙
	Commission income Gross 166 Net	139			⊙
	Farming income Gross 168 Net	141			⊙
	Fishing income Gross 170 Net	143			⊙
Total Income (add lines 105 to 143 inclusive - please enter this amount on line 200 on page 2)		150	40791	45	▶

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Value

(5) 3. Bonnie Desjarlais works for Telephone International as a line manager and had a taxable income of $26 534.00 as determined from line 260 of the tax return. She also had tax credits totalling $1260.00. Determine the net federal tax (line 420), the net Alberta tax payable (line 427), and the total payable (line 435). Use the forms and the tax tables (A and B) that follow.

Step 5 - Summary of Tax and Credits

There are two methods of tax calculation (see Tax Tables in Guide). 4

Taxable Income from line 260 on page 2 400 26534 00

TAX TABLE METHOD ONLY

Federal Income Tax from Tax Table A in Guide	401	4511	00
Subtract: Total non-refundable tax credits from line 350 on page 2	402	1260	00
Federal Tax (line 401 minus line 402 - if negative, enter zero **or** from line 406 on Schedule 1)	406	3251	00
Subtract: **Federal political contribution tax credit** Total contributions 409 ⊙			
from calculation in Guide — Allowable tax credit	410		
Investment tax credit	412		•
Labour-Sponsored Funds tax credit (attach receipts)	414		•
Total of above credits	416		▶
Federal tax before federal individual surtax (line 406 minus line 416 - if negative, enter zero)	417		
Add: **Federal individual surtax** (look up line 406 amount on Tax Table B in Guide **or** from line 419 on Schedule 1)	419	98	00
Net Federal Tax	420	3349	00
Add: **Alberta tax** from form T1C (ALTA.)	423	1644	37
Add: **Recovery of Alberta Stock Savings Plan tax credit** from form T89	424		•
Net Alberta Tax	427	1644	37 ▶ 1644 37
Canada Pension Plan contribution payable on self-employment earnings from page 3	432		
Unemployment Insurance benefit repayment payable from calculation in Guide	433		
Recovery of child tax credit overpayment from Schedule 7	434		•
Total Payable (add line 420 and lines 427 to 434 inclusive)	435	4993	37 •

Value

Alberta T1C (ALTA.)

Alberta Income Tax (Applicable to residents of Alberta on December 31, 1988)

If you were not a resident of Alberta on December 31, 1988 or if you had income from a business with a permanent establishment outside Alberta in 1988, refer to the Guide

Basic Alberta Income Tax - from Tax Table B in Guide or 46.5% of "Basic Federal Tax" on Schedule 1			1511 70
Add: Alberta Surtax - 8% of ("Basic Alberta Income Tax" in excess of $3,500.00)			
Add: Alberta Flat Rate Tax - 0.5% of Taxable Income (line 400 on your return)			132 67
		Adjusted Alberta Income Tax	1644 37
Subtract: Royalty Tax Rebate applied (from line (H) on form T79)			
		Alberta Income Tax after rebate (A)	1644 37
Subtract: Alberta Selective Tax Reduction			
Basic Claim	430 00		
Subtract ½ of Alberta Income Tax after rebate (amount (A) above)	822 19		
Total (if negative, there is no reduction, enter zero) (B)	0 00		
Subtract amount (A) or amount (B), whichever is less, as the tax reduction			0 00
		Reduced Alberta Income Tax	1644 37
Subtract: Provincial Foreign Tax Credit from calculation on form T2036			
		Alberta Tax (please enter this amount on line 423 on your return)	1644 37

1

Value

TAX TABLE A

Column 1 Taxable Income (line 400) over	not over	Column 2 Federal Income Tax (line 401)
$26500	26510	$4506
26510	26520	4508
26520	26530	4509
26530	26540	4511
26540	26550	4513
26550	26560	4514
26560	26570	4516
26570	26580	4518
26580	26590	4519
26590	26600	4521

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TAX TABLE B

Column 1 Federal Tax (line 406) over	not over	Column 2 Individual Surtax (line 419)	Column 3 Basic Alberta Income Tax (form T1C-ALTA)	Column 1 Federal Tax (line 406) over	not over	Column 2 Individual Surtax (line 419)	Column 3 Basic Alberta Income Tax (form T1C-ALTA)
$3240	3242	$ 97	$ 1507.10	$3440	3442	$ 103	$ 1600.10
3242	3244	97	1508.00	3442	3444	103	1601.00
3244	3246	97	1508.90	3444	3446	103	1601.90
3246	3248	97	1509.90	3446	3448	103	1602.90
3248	3250	97	1510.80	3448	3450	103	1603.80
3250	3252	98	1511.70	3450	3452	104	1604.70
3252	3254	98	1512.60	3452	3454	104	1605.60
3254	3256	98	1513.60	3454	3456	104	1606.60
3256	3258	98	1514.50	3456	3458	104	1607.50
3258	3260	98	1515.40	3458	3460	104	1608.40
$3260	3262	$ 98	$ 1516.40	$3460	3462	$ 104	$ 1609.40
3262	3264	98	1517.30	3462	3464	104	1610.30
3264	3266	98	1518.20	3464	3466	104	1611.20
3266	3268	98	1519.20	3466	3468	104	1612.20
3268	3270	98	1520.10	3468	3470	104	1613.10
3270	3272	98	1521.00	3470	3472	104	1614.00
3272	3274	98	1521.90	3472	3474	104	1614.90
3274	3276	98	1522.90	3474	3476	104	1615.90
3276	3278	98	1523.80	3476	3478	104	1616.80
3278	3280	98	1524.70	3478	3480	104	1617.70

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(4) 4. Shelley Grant works for Horkoff Survey doing data entry. She is single and goes to school part time. Last year, she paid $434.00 to CPP, $611.25 to UIC, paid school tuition of $225.00, and donated $380.00 to the Canadian Society of Starting Artists. Use the following form and the given information to calculate the total of Shelley's non-refundable tax credits.

Step 4 - Calculation of Total Non-Refundable Tax Credits

Non-Refundable Tax Credits

Basic personal amount	Claim $6,000.00	300	6000	00			
Age amount, if you were born in 1923 or earlier (if you did not receive the Old Age Security pension, attach a letter giving reasons)	Claim $3,236.00	301					
Married amount (provide details on page 3)		303			⊙		
Amounts for dependent children (provide details on page 3)		304			⊙		
Additional personal amounts (attach completed Schedule 6)		305			⊙		
Canada or Quebec Pension Plan contributions							
Contributions through employment from Box (D) on all T4 slips (maximum $478.00)		308	434	00	• ⊙		
Contribution payable on self-employment earnings (from page 3)		310			•		
Unemployment Insurance premiums from Box (E) on all T4 slips (maximum $690.56)		312	611	25	• ⊙		
Eligible pension income amount (maximum $ 1,000)		314			⊙		
Disability amount for self (claim $ 3,236.00)		316			⊙		
Disability amount for dependant other than spouse		318			⊙		
Tuition fees for self (attach receipts)		320	255	00	⊙		
Education amount for self (attach form T2202 or T2202A)		322			⊙		
Tuition fees and education amount transferred from child (attach form T2202 or T2202A)		324			⊙		
Amounts transferred from spouse (attach completed Schedule 2)		326			⊙		
Medical expenses (attach receipts and complete Schedule 5)	330				⊙		
Subtract: 3% of "Net Income" (line 236 above) (maximum $ 1,500)							
Allowable portion of medical expenses		▶ 332					
Add lines 300 to 326 inclusive and line 332 (IF THIS AMOUNT EXCEEDS THE AMOUNT AT LINE 260, SEE "LINE 335" IN GUIDE)		335	7300	25			
Non-refundable tax credits - 17% of line 335 or see Tax Table A instructions in Guide						338	1241 04
Add: Charitable donations and gifts to Canada or a province (attach receipts)							
Charitable donations (attach completed Schedule 5)	340	380	00	⊙			
Gifts to Canada, a province or gifts of cultural property	342			⊙			
Total Donations	344	380	00				
On the first $250 or less		250	00		the credit at 17% is	346	42 50
On the balance		130	00		the credit at 29% is	348	37 70
Total Non-Refundable Tax Credits (add lines 338, 346 and 348) (proceed to Step 5 on page 4)						350	1321 24

[1]

UNIT 2

_____ **Marks**

[1] Revenue Canada. All tax forms and tables are reprinted with permission of the Minister of Supply and Services Canada.

Value

UNIT 3: BANKING - SAVINGS AND CHEQUING ACCOUNTS

(1)

1. Circle the correct response.

   Which of the following investments may be used to reduce your taxable income?

   (A.) Registered Retirement Savings Plan

   B. Treasury Bill

   C. Canada Savings Bond

   D. Term Deposit

(2)

2. Bill Garnet wants to withdraw $345.00 from his savings account on July 12, 1989. Bill's savings account number is 006-2345. Complete the withdrawal slip shown below for Bill.

SAVINGS WITHDRAWAL *July 12, 19 89*

RECEIVED
FROM THE BANK OF ALBERTA $ *345.00*

Three hundred forty-five ——— XX DOLLARS

ACCOUNT NUMBER *006-2345*

(Please sign in presence of Teller)

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Value

(2) 3. Use the information below to find the new balance of Lloyd's savings account.

July 1	:	Balance forward	= $1642.17
July 12	:	Deposit	= $ 386.40
July 24	:	Deposit	= $ 132.65
July 31	:	Interest	= $ 28.93
August 12	:	Deposit	= $ 632.88
August 27	:	Withdrawal	= $ 192.50
September 5	:	Deposit	= $ 377.41
September 2	:	Withdrawal	= $ 530.84

$$\begin{aligned}\text{New Balance} &= \$1642.17 + \$386.40 + \$132.65 + \$28.93 + \$632.88 - \$192.50 + \$377.41 - \$530.84 \\ &= \$2477.10\end{aligned}$$

(2) 4. Amy borrowed $16 875.00 at a simple interest rate of $12\frac{1}{2}\%$ per year. Calculate the interest charged after 32 months.

$$I = Prt$$

$$\begin{aligned}I &= \$16\,875.00 \times 12\tfrac{1}{2}\% \times \frac{32}{12} \\ &= \$16\,875.00 \times 0.125 \times \frac{32}{12} \\ &= \$5625.00\end{aligned}$$

Value

(3) 5. Use the Compound Interest Table to answer the question that follows.

Compound Interest Table for One Dollar

Number of Periods	1.5%	2%	2.5%	3%	3.5%	4%	5%	6%	7%	8%
1	1.0150	1.0200	1.0250	1.0300	1.0350	1.0400	1.0500	1.0600	1.0700	1.0800
2	1.0302	1.0404	1.0506	1.0609	1.0712	1.0816	1.1025	1.1236	1.1449	1.1664
3	1.0457	1.0612	1.0769	1.0927	1.1087	1.1248	1.1576	1.1910	1.2250	1.2597
4	1.0614	1.0824	1.1038	1.1255	1.1475	1.1699	1.2155	1.2625	1.3108	1.3605
5	1.0773	1.1041	1.1314	1.1593	1.1877	1.2167	1.2763	1.3382	1.4026	1.4693
6	1.0934	1.1262	1.1597	1.1941	1.2293	1.2653	1.3401	1.4186	1.5007	1.5869
7	1.1098	1.1487	1.1887	1.2299	1.2723	1.3159	1.4071	1.5036	1.6058	1.7138
8	1.1265	1.1717	1.2184	1.2668	1.3168	1.3686	1.4775	1.5938	1.7182	1.8059
9	1.1434	1.1951	1.2489	1.3048	1.3629	1.4233	1.5513	1.6895	1.8385	1.9990
10	1.1605	1.2190	1.2801	1.3439	1.4106	1.4802	1.6289	1.7906	1.9672	2.1589
11	1.1779	1.2434	1.3121	1.3842	1.4600	1.5395	1.7103	1.8963	2.1040	2.3316
12	1.1956	1.2682	1.3449	1.4258	1.5111	1.6010	1.7959	2.0122	2.2522	2.5182
13	1.2136	1.2936	1.3785	1.4685	1.5640	1.6651	1.8856	2.1329	2.4098	2.7196
14	1.2318	1.3195	1.4130	1.5126	1.6187	1.7317	1.9799	2.2609	2.5785	2.9372
15	1.2502	1.3459	1.4483	1.5580	1.6753	1.8009	2.0789	2.3966	2.7590	3.1722
16	1.2690	1.3728	1.4845	1.6047	1.7340	1.8730	2.1829	2.5404	2.9522	3.4259
17	1.2880	1.4002	1.5216	1.6528	1.7947	1.9479	2.2920	2.6928	3.1588	3.7000
18	1.3073	1.4282	1.5597	1.7024	1.8575	2.0258	2.4066	2.8543	3.3799	3.9960
19	1.3270	1.4568	1.5987	1.7535	1.9225	2.1068	2.5270	3.0256	3.6165	4.3157
20	1.3469	1.4859	1.6386	1.8061	1.9898	2.1911	2.6533	3.2071	3.8697	4.6610
21	1.3671	1.5157	1.6796	1.8603	2.0594	2.2788	2.7860	3.3996	4.1406	5.0338
22	1.3876	1.5460	1.7216	1.9161	2.1315	2.3699	2.9253	3.6035	4.4304	5.4365
23	1.4084	1.5769	1.7646	1.9736	2.2061	2.4647	3.0715	3.8198	4.7405	5.8715
24	1.4295	1.6084	1.8087	2.0328	2.2833	2.5633	3.2251	4.0489	5.0724	6.3412
25	1.4509	1.6407	1.8539	2.0938	2.3673	2.6658	3.3864	4.2919	5.4274	6.8485

Cindy Sandstone has $3850.00 in a savings account that pays interest at a rate of 8% per annum compounded semiannually. How much interest will Cindy earn in 4 years?

$$\frac{\text{Interest}}{\text{Periods}} = \frac{8\%}{2} = 4\%$$

$$\text{Number of Periods} = 2 \times 4 = 8$$

$$\text{Total Amount} = 1.3686 \times \$3850.00$$
$$= \$5269.11$$

$$\text{Interest} = \$5269.11 - \$3850.00$$
$$= \$1419.11$$

TEACHER'S COPY

Value

(3) 6. List 3 potential service charges associated with a chequing account.

- charges for cheques written
- charges for withdrawals
- charge for overdrawn account
- charge per month
- charge for service package
- charge for certified cheque

(2) 7. On September 20, 1989, Stephanie Roads deposited a cheque for $1215.82 into her chequing account, #004-637825. Stephanie also withdrew $150.00 in cash. Complete the deposit slip for this account.

THE BANK OF ALBERTA **DEPOSIT**

CASH		
CHEQUES/ COUPONS	1215	82
SUB TOTAL	1215	82
LESS CASH	150	00
AMOUNT	1065	82

Date: *September 20/89*

Depositor's Initals: *S.R.*

SIGNATURE - CASH RECEIVED: *Stephanie Roads*

BRANCH NO.	ACCOUNT NO.	NAME - (PLEASE PRINT)
	004-637825	Stephanie Roads

TEACHER'S COPY

Value

Use the bank statement below to answer questions **8** to **10**.

THE BANK
OF ALBERTA

STATEMENT OF ACCOUNT
PLEASE NOTIFY US OF ANY CHANGE IN YOUR ADDRESS

ACCOUNT NO.	PAGE
1004-363	1
September 3/89 STATEMENT DATE	1 ENCLOSURES

Wolfgang Stern
1313 - Werewolf Lane
Silverbullet, Alberta W0L 0F0

OVERDRAWN
BALANCE

BALANCE FORWARD FROM PREVIOUS STATEMENT 2630.90

DESCRIPTION DEBITS/CHEQUES		DEPOSITS/CREDITS	DATE M	DATE D
ATM - DEP		400.00	08	03
ATM - WD	150.00		08	07
DEP		23.50	08	09
TRANSFER	1565.00		08	10
CHEQUE 101	36.95		08	10
ATM - DEP		120.00	08	15
CHEQUE 103	644.21			
SERVICE CHARGES	6.00			

NO. DEBITS	TOTAL AMOUNT DEBIT	NO. CREDITS	TOTAL AMOUNT CREDIT	
5		3		LAST STATEMENT 03 AUGUST

PLEASE CHECK THIS STATEMENT WITHOUT DELAY
THE BANK MUST BE NOTIFIED IN WRITING OF ANY ERROR OR OMISSION WITHIN 30 DAYS

(1) 8. What were Wolfgang's total debits?

Total debits $= \$150.00 + 1565.00 + 36.95 + 644.21 + 6.00$
$= \$2402.16$

(1) 9. What were the total credits?

Total credits $= \$400.00 + 23.50 + 120.00$
$= \$543.50$

TEACHER'S COPY

Value

(1) 10. Determine the balance in Wolfgang's account September 3, 1989.

$$\begin{aligned}\text{New balance} &= \$2630.90 - \$2402.16 + \$543.50 \\ &= \$772.24\end{aligned}$$

(2) 11. Reconcile the bank statement information with the cheque register balance. Find the true amount in this chequing account.

Bank balance	-	\$944.68
Outstanding deposits	-	\$ 75.00
	-	\$126.75
	-	\$ 44.32
Outstanding cheques	-	\$ 19.95
	-	\$ 27.80
	-	\$478.36
	-	\$ 95.44
Service charge	-	\$ 5.25
Cheque register balance	-	\$580.95
True amount	=	**\$563.95**

$$\begin{aligned}\text{True amount} &= \$944.68 + (75 + 126.75 + 44.32) \\ &\quad -(\$19.95 + \$27.80 + \$478.36 + \$95.44 + \$5.25) \\ &= \$944.68 + \$246.07 - \$626.80 \\ &= \$563.95\end{aligned}$$

UNIT 3

_____ Marks

TEACHER'S COPY

Value

UNIT 4: BANKING - BORROWING MONEY AND USING CREDIT CARDS

(1)

1. Circle the correct response.

   The institution which charges the lowest interest rates to its loan customers is the

   A. retailer

   B. trust company

   (C.) credit union

   D. finance company

(3)

2. Joanne obtained a demand loan of $630.00 for 162 days. At maturity, she paid $44.74 in interest for this loan. Determine the interest rate that was charged for this loan.

$$r = \frac{I}{Pt}$$
$$= \frac{\$44.74}{\$630 \times \frac{162}{365}}$$
$$= \frac{44.74 \times 365}{630 \times 162}$$
$$= \frac{16\,330.1}{102\,060}$$
$$= 0.16$$
$$= 16\%$$

(2)

3. Abdul borrowed $4605.00 from his dad to buy a car. He agreed to pay back the loan after one year and pay simple interest of 15.0% per year. How much would Abdul owe his dad after one year?

$$I = Prt$$
$$= \$4605.00 \times 0.15 \times 1$$
$$= \$690.75$$

Total amount $= \$4605.00 + \$690.75$
$= \$5295.75$

Value

(1) 4. Use the monthly instalment table to answer the question that follows.

Interest Rate	Time in Months	Principal of $100 Monthly payment will be
10%	6	17.16
	12	8.79
	18	6.01
	24	4.61
12%	6	17.26
	12	8.89
	18	6.11
	24	4.71
15%	6	17.40
	12	9.03
	18	6.24
	24	4.85
18%	6	17.55
	12	9.17
	18	6.38
	24	4.99
20%	6	17.65
	12	9.27
	18	6.48
	24	5.09
24%	6	17.85
	12	9.47
	18	6.58
	24	5.29

Kara purchased a new car by trading in her old car and obtaining an instalment loan of $5200.00 at 18% to be repaid monthly for 12 months. Find the total amount to be repaid.

Monthly charge $= \$9.17 \times 52 = \$476.84$
Total amount $= \$476.84 \times 12$
$= \$5722.08$

TEACHER'S COPY

Value

Use the credit card sales receipt below to answer questions 5 to 7.

5024576 04/88 04/92 Ken James Lone Star Building Services	Quantity	Description	Unit Price	Amount
	2	boxes	2.40	4.80
	4	nails	2.10	8.40
	7	plates	1.50	10.50
	4	washers	3.10	12.40
Signature	Date June 2/89		Sub-total	
			Tax	
			Total	

(1) 5. What is the expiry date of Ken James's credit card?

04/92
(April, 1992)

(1) 6. What is the total cost of Ken's purchase?

Total $= \$4.80 + 8.40 + 10.50 + 12.40$
$= \$36.10$

(1) 7. What would be the total cost if you had to pay an 8% sales tax?

Tax $= \$36.10 \times 8\%$
$= \$36.10 \times 0.08$
$= \$2.89$

Total $= \$36.10 + 2.89$
$= \$38.99$

TEACHER'S COPY

Value

(1)

8. Your credit card bill was $1829.45 for the month of September and you did not pay it. In October, you made additional charges of $645.00. How much would you owe the credit card company when you receive your next statement? (The credit card company charges an annual interest rate of 21.0%.)

$$\text{Monthly interest rate} = \frac{21\%}{12} = 1.75$$

$$\begin{aligned}\text{Interest charges} &= \$1829.45 \times 1.75\% \\ &= \$1829.45 \times 0.0175 \\ &= \$32.02\end{aligned}$$

$$\begin{aligned}\text{Amount owing} &= \$1829.45 + \$32.02 + \$645.00 \\ &= \$2506.47\end{aligned}$$

Value

(2) 9. For Victoria's credit card monthly statement below, identify the amount due. The amount due is 6% of the new balance.

Previous Balance $440.00	Payments $160.00	Credits $30.00
Unpaid balance	Finance charge $9.70	Purchases $240.00
	New Balance **$499.70**	Amount Due **$29.98**
Pay new balance by to avoid finance charges	May 5/89	

New Balance $= \$440.00 - \$160.00 - \$30.00 + \$9.70 + \$240.00$
$= \$499.70$

Amount Due $= \$499.70 \times 6\%$
$= \$499.70 \times 0.06$
$= \$29.98$

UNIT 4

_____ Marks

TEACHER'S COPY

Value

UNIT 5: TRANSPORTATION - OWNING A VEHICLE

(1)

1. Francis is purchasing a new Firebird[1]. Calculate the full list price of his car which includes the indicated options.

C/C	Description	List Price
	Firebird[1] (Base Price)	14 700.00
ADL	Automatic Transmission	500.00
PW2	Power Door Locks	520.00
BLC	Block Heater	38.00
SPA	Sound System	800.00
CK1	Cruise Control	510.00
633	Destination Charges	460.00

$$\begin{aligned}\text{List price} &= \$14\,700.00 + \$500.00 + \$520.00 + \$38.00 + \$800.00 + \\ &\quad \$510.00 + \$460.00 \\ &= \$17\,528.00\end{aligned}$$

(3)

2. June Kerr sold her 1983 automobile for $6540.00. She originally paid $15 800.00 for the car. What was the percent depreciation on her car?

$$\begin{aligned}\text{Depreciation} &= \$15\,800 - \$6540.00 \\ &= \$9260.00\end{aligned}$$

$$\begin{aligned}\%\text{ depreciation} &= \frac{\$9260}{\$15\,800} \times 100\% \\ &= 0.5860 \times 100\% \\ &= 58.6\%\end{aligned}$$

[1] Courtesy of *General Motors of Canada Ltd.* for the use of their name.

Value

(2) 3. George wanted to know how much it cost for gasoline for the round trip from Milk River to Lavoy. Thus, he kept track at each fill-up. His first fill-up took 12 L at \$0.43/L. His next fill-up took 49 L at \$0.50/L. His last three fill-ups each took 30 L at \$0.48/L. Determine the total cost of gasoline.

$$\begin{aligned}\text{Gasoline cost} &= 12 \times \$0.43 + 49 \times \$0.50 + 3 \times 30 \times \$0.48 \\ &= \$5.16 + \$24.50 + \$43.20 \\ &= \$72.86\end{aligned}$$

(2) 4. On a recent trip to Calgary, David had car trouble. He took the car to a local service station where they told him that he needed a new ignition switch. The part cost \$82.50 and required 2.6 hours to install. What was his total cost if the labour rate was \$39.00 per hour?

$$\begin{aligned}\text{Repair cost} &= \$82.50 + 2.6 \times \$39.00 \\ &= \$82.50 + \$101.40 \\ &= \$183.90\end{aligned}$$

(2) 5. Janette plans to purchase a new car. A local dealer will sell her the car she wants for \$14 600. However, she can lease the car for a 36-month period for \$200 per month, with an option to buy the car at the end of the lease period for \$10 950. How much more will the lease plan cost than the straight purchase plan?

$$\begin{aligned}\text{Cost of leasing} &= 36 \times \$200 + \$10\,950 \\ &= \$7200 + \$10\,950 \\ &= \$18\,150.00\end{aligned}$$

$$\begin{aligned}\text{Difference} &= \$18\,150 - \$14\,60.00 \\ &= \$3550.00\end{aligned}$$

Value

(1) 6. Sanjay Kumar pays $750 per year for car insurance. He is a class 2 driver with 6 accident-free years. If he pays on a monthly basis, calculate his monthly payment.

$$\text{Monthly payment} = \frac{\$750}{12} = \$62.50$$

(1) 7. Circle the correct response.

Insurance premiums are highest on newer vehicles.

(A.) True

B. False

UNIT 5

_____ Marks

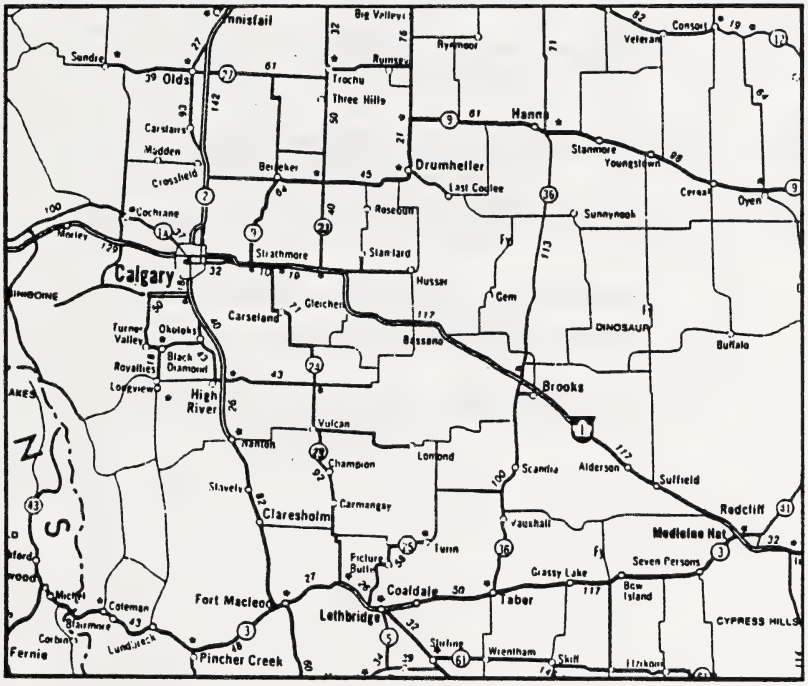
TEACHER'S COPY

Value **UNIT 6: TRANSPORTATION - TRAVELLING**

(2) 1. From the map below, determine the distance from

a. Oyen to Drumheller. **180** km

b. Taber to Calgary. **278** km



TEACHER'S COPY

Value

(5)

2. Rebecca and Gary are planning on driving from Calgary to Winnipeg for a ten-day holiday, a distance of 2700 km return. Their car has a fuel consumption rating of 8.4 L/100 km, and the couple expect to pay an average of 51.8¢/L for gasoline during the trip. Rebecca estimates the nightly cost of a room to be $64.50 plus a 12% room tax. The couple will need a room for 9 nights. Gary estimates that the couple will spend $421.00 on meals (including tips). Calculate the total cost of Rebecca and Gary's trip.

$$\text{Number of litres} = 2700 \text{ km} \times \frac{8.4 \text{ L}}{100 \text{ km}}$$
$$= 226.8 \text{ L}$$

$$\text{Cost of gas} = 226.8 \text{ L} \times \$0.518 / \text{L}$$
$$= \$117.48$$

$$\text{Accommodation} = \$64.50 \times 9 + 12\%(\$64.50 \times 9)$$
$$= \$580.50 + 12\%(\$580.50)$$
$$= \$580.50 + \$69.66$$
$$= \$650.16$$

$$\text{Total cost} = \$117.48 + \$650.16 + \$421.00$$
$$= \$1188.64$$

Value

(2)

3. From the fare summary below, determine the total one-way fare for Margaret Olson and her 8-year-old daughter travelling full fare from Calgary to Ottawa. Add 10% tax to the fare, to a maximum of $50.00 per person.

Fare Summary: from Calgary to

Fare Code	Winnipeg			Ottawa			Montreal		
One Way	Adult $	Spouse $	Child under 12 $	Adult $	Spouse $	Child under 12 $	Adult $	Spouse $	Child under 12 $
F	237	201	165	594	504	415			
Ex	184	156	129	458	389	320	544	462	380
Y	171	141	117	426	363	294	507	428	353
SS	148	148	148	256	256	256	462	462	462

F - Full fare Ex - Executive class Y - Economy Class SS - Seat Sale

Fare $= \$594 + \$415 + 10\%(594) + 10\%(415)$

Actual cost $= \$1009 + \$50(\text{maximum}) + \$41.50$
$= \$1100.50$

TEACHER'S COPY

Value

(1) 4. Suppose Jerry and June Farmer took their 7 children on vacation to Culver City, California. From the chart below, determine what the cost is for them to tour Universal Studios for one afternoon.

California Bus Tours

Tour Description	Length of Tour	Price Adults	Price Child
L.A./Hollywood by night	7 hours	$38.00	$25.00
Universal Studios Morning	6.5 hours	51.00	36.00
Universal Studios Afternoon	6.5 hours	51.00	36.00
Tijuana Shopping	12 hours	47.00	28.00
Sea World	10 hours	53.00	32.00
San Diego Zoo	10 hours	46.00	28.00
Queen Mary	6 hours	25.00	18.00
Knotts Berry Fam		30.00	19.00

$$\begin{aligned}\text{Cost} &= 2\times\$51+7\times\$36\\ &= \$102+\$252\\ &= \$354.00\end{aligned}$$

Value

(2) 5. Nick is planning a trip to Greece. How much will it cost him to buy 60 000 Drachmas?

Traveller's Currency Guide

		One Foreign Currency Unit Equals
U.S.	Dollar	Cdn $1.2279
British	Pound	Cdn $2.0961
Swiss	Franc	Cdn $0.8115
Japanese	Yen	Cdn $0.00937
French	Franc	Cdn $0.1999
Greek	Drachma	Cdn $0.00917
Belgian	Franc	Cdn $0.0325
Spanish	Peseta	Cdn $0.01037

Cost of foreign currency $= 60\,000 \times \$0.009\,17$
$= \$550.20$

UNIT 6

_____ Marks

TEACHER'S COPY

Value

UNIT 7: ACCOMMODATION

1. Terri Turner is renting an apartment and has the following monthly expenses. Her take-home pay is $1535.00 per month. Answer the following questions. Express your answers to two decimal places where neccessary.

Expense Item	Cost
rent	$395.00
utilities	$105.00
insurance	$ 40.00
food and clothing	$ 90.00
automobile expenses	$105.00
entertainment	$155.00
miscellaneous	$185.00

(1) a. What percent of Terri's monthly income is spent on utilities?

$$\text{Percentage} = \frac{\$105}{\$1535} \times 100\%$$
$$= 6.84\%$$

(2) b. What percent of her monthly income is left to put into a savings account?

$$\text{Amount remaining} = \$1535 - (395 + 105 + 40 + 90 + 105 + 155 + 185)$$
$$= \$1535 - \$1075$$
$$= \$460$$

$$\text{Percent remaining for savings} = \frac{\$460}{\$1535} \times 100\%$$
$$= 30.0\%$$

Value

(2) 2. Buying a house costs quite a bit more than just the legal fees and the down payment. Besides these costs, there are a variety of other expenses as listed below. Determine the initial cost if the down payment is 20% of the $88 900 purchase price.

Expense Item	Cost
property survey	$350.00
insurance	$200.00
legal	$300.00
mortgage fees	$540.00
taxes	$370.00

$$\begin{aligned}\text{Down payment} &= \$88\,900 + 20\% \\ &= \$88\,900 \times 0.20 \\ &= \$17\,780\end{aligned}$$

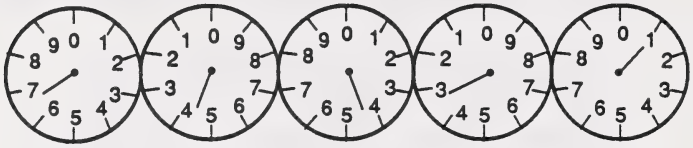
$$\begin{aligned}\text{Total cost} &= \$17\,780 + 350 + 200 + 300 + 540 + 370 \\ &= \$19\,540\end{aligned}$$

(2) 3. Jacob Hilliar has decided to move into a new apartment. He earns $3250.00 per month and can afford to spend 43% of his salary on rent. What is the most expensive apartment that he can afford?

$$\begin{aligned}\text{Maximum rent} &= \$3250 \times 43\% \\ &= \$3250 \times 0.43 \\ &= \$1397.50\end{aligned}$$

Value

4. The power company read Tracy's meter at the end of January. The electric meter is shown below.



(1) a. What is the reading on the above meter?

64431

(2) b. Tracy's previous meter reading was 63 066. Calculate the amount of her electric bill if the power company charges 4.3¢ per kilowatt hour. (The reading on the meter is shown in kilowatt hours.)

$$\begin{aligned} \text{kW} \bullet \text{h} &= 64\,431 - 63\,066 \\ &= 1365\ \text{kW} \bullet \text{h} \end{aligned}$$

$$\begin{aligned} \text{Cost} &= 1365 \times \$0.043 \\ &= \$58.70 \end{aligned}$$

(2) 5. The Marsh family is planning a move from Edmonton to East Bay. The distance is 745 km. Ajax Movers will move them for a minimum charge of $490 and an additional fee of $0.25/km. How much would Ajax charge the family?

$$\begin{aligned} \text{Movers' cost} &= \$490 + 745 + \$0.25 \\ &= \$490 + \$186.25 \\ &= \$676.25 \end{aligned}$$

Value

(3) 6. The mortgage on B.E. Wealthy's home is $65 800 payable in monthly installments over a period of 13 years at 8% per annum compounded semiannually. Use the following table to find the monthly payment necessary to amortize the mortgage.

Monthly Mortgage Loan Table Unit = $1.00

Period in Months	$\frac{1}{2}$% per month	$\frac{2}{3}$% per month	$\frac{3}{4}$% per month	$\frac{5}{6}$% per month	1% per month	$1\frac{1}{4}$% per month
138	0.010 012	0.011 036	0.011 566	0.012 107	0.013 220	0.014 962
144	0.009 721	0.010 754	0.011 288	0.011 835	0.012 960	0.014 722
150	0.009 454	0.010 496	0.011 035	0.011 587	0.012 724	0.014 505
156	0.009 209	0.010 259	0.010 803	0.011 360	0.012 509	0.014 310
162	0.005 653	0.010 041	0.010 590	0.011 152	0.012 312	0.014 132
168	0.008 774	0.009 840	0.010 394	0.010 961	0.012 133	0.013 971
174	0.008 580	0.009 654	0.010 213	0.010 786	0.011 968	0.013 824
180	0.008 399	0.009 482	0.010 046	0.010 623	0.011 817	0.013 691
186	0.008 231	0.009 322	0.009 891	0.010 473	0.011 677	0.013 569
192	0.008 075	0.009 174	0.009 747	0.010 334	0.011 549	0.013 457

Monthly interest rate $= \frac{8\%}{12} = \frac{2}{3}\%$

Total number of months $= 13 \times 12$ months
$= 156$ months

Monthly payment $= \$65\,800 \times 0.010259$
$= \$675.04$

(1) 7. Circle the correct response.

A mortgage which has been paid out or has expired is said to be

A. amortized

(B.) discharged

C. open

D. foreclosed

Value

(2) 8. You have applied for a mortgage on a house you want to buy. The appraised value of the house is $89 900. Your lending institution has agreed to finance 85% of the value of the property. How much money will you have to come up with in order to buy the house?

Amount financed $= \$89\,900 \times 85\%$
$= \$89\,900 \times 0.85$
$= \$76\,415$

Cash needed $= \$89\,900 - \$76\,415$
$= \$13\,485$

(2) 9. Harold Thomson owns a stylish old home that has a replacement value of $138 800. He insures it for 82% of its replacement value. What is the amount of coverage on Harold's home?

Coverage $= \$138\,800 \times 82\%$
$= \$138\,800 \times 0.82$
$= \$113\,816$

Value

Use the following table to answer questions **10** and **11.**

Annual Premiums for a Typical Homeowner's Policy								
Amount of Insurance Coverage	Brick/Masonry Veneer				Wood Frame			
	Fire Protection Class				Fire Protection Class			
	1-6	7-8	9	10	1-6	7-8	9	10
$ 10 000	$ 84	$ 91	$ 108	$ 113	$ 91	$ 95	$ 113	$ 119
15 000	89	95	114	119	95	100	119	126
20 000	93	100	120	126	100	105	126	133
25 000	98	105	126	132	105	110	132	139
30 000	107	115	138	144	115	121	144	152
35 000	117	126	151	158	126	132	158	167
40 000	127	136	164	171	136	143	171	181
50 000	146	157	188	197	157	165	197	209
60 000	169	182	219	229	182	191	229	242
70 000	193	208	250	262	208	218	262	277
80 000	222	239	288	301	239	251	301	319
90 000	250	270	325	341	270	283	341	361
100 000	280	302	364	381	302	317	381	404
150 000	425	459	554	581	459	482	581	615

Value

10. The Rondeaus own a brick home that has a replacement value of $135 000. They want to purchase a homeowner's policy for 60% of the replacment value. The Rondeaus live in an area that has a class 10 fire protection rating. Round the amount of coverage to the nearest $10 000.

(2) a. What is the amount of coverage?

$$\begin{aligned}\text{Coverage} &= \$135\,000 \times 60\% \\ &= \$135\,000 \times 0.60 \\ &= \$81\,000\end{aligned}$$

Round the amount of coverage to $80 000.

(1) b. What is their annual policy premium?

$301

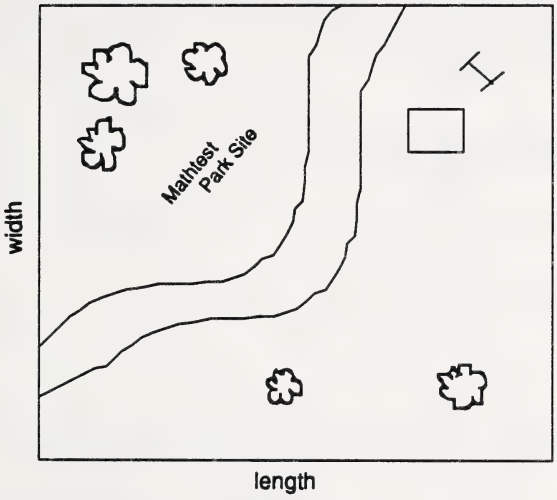
(1) 11. Linda Hammer owns a wood frame house with a $30 000.00 homeowner's insurance policy with a class 2 protection clause. Determine Linda's annual premium.

$115

Value

(4)

12. Find the actual dimensions of a proposed park site from the scale drawing given below. The scale used was 1 cm = 47 m.



length = 9 cm × 47 m/cm
= 423 m

width = 8 cm × 47 m/cm
= 376 m

Value

(2)

13. A carpet distributor measures the length and the width of a rectangular room as 7 m and 4 m respectively. Calculate the cost of carpeting the room with carpet that sells for $\$24.95/m^2$.

$$\begin{aligned}\text{Area of carpet} &= 7\,m \times 4\,m \\ &= 28\,m^2\end{aligned}$$

$$\begin{aligned}\text{Cost of carpet} &= 28\,m^2 \times \$24.95/m^2 \\ &= \$698.60\end{aligned}$$

UNIT 7

_____ Marks

TEACHER'S COPY

Value UNIT 8: COST OF INDEPENDENCE

(1) 1. Circle the correct response.

When you buy a sale item, the amount you save is known as the

A. sale price

B. regular price

(C.) discount

D. unit price

(2) 2. Emily Mars has the following annual expenses. Determine her monthly share.

Life insurance = $ 275.00
Home insurance = $ 143.00
Car insurance = $ 560.00
Property taxes = $1198.00

$$\text{Monthly share} = \frac{\$275+143+560+1198}{12}$$

$$= \frac{\$2176}{12}$$

$$= \$181.33$$

Value

(2) 3. Bernard Hoffman is keeping records of his income for 4 months. Determine his average monthly income.

March	April	May	June
Salary $2280 Man. Rebate $15	Salary $2280 Bonus $306	Salary $2280 Interest $36	Salary $2280
$2295	$2586	$2316	$2280

$$\text{Average monthly income} = \frac{\$2295 + 2586 + 2316 + 2280}{4}$$
$$= \frac{\$9477}{4}$$
$$= \$2369.25$$

Value

4. Use the budget sheet below to answer the question that follows.

Budget Sheet (Budgeted expenditures)			
Name: Brenda Fisher		Date:	
Fixed Monthly Expenses		**Variable Monthly Expenses**	
Rent or Mortgage	$ 875.00	Food	$ 462.00
Car payment	326.00	Household:	
Instalment payments		Electricity	65.80
a. Furniture		Heating fuel	44.95
b. Appliances		Telephone	32.70
c.		Water, garbage, sewer	26.88
Savings	41.00	Other	
Emergency Fund	86.50		
		Transportation:	
Total	$_____	Gas, oil	96.00
Annual Expenses		Parking	24.00
		Commuting	
Property tax	1344.00	Other	
Car insurance	839.00	Personal spending:	
Life insurance	150.00	Clothing	244.00
Renter's insurance		Newspaper/magazine	12.00
License plates	48.00	Pocket money	52.00
Other		Gifts, contributions	115.50
		Entertainment:	
Total	$_____	Movie/theatre	35.00
		Sports events	
Reserved monthly		Recreation	46.80
(divided by 12)	$_____	Dining out	34.20
		Miscellaneous	
		Total	$_____
		Monthly Spending Plan	
		Net income	$ _____
		Expenses:	
		Fixed Expenses	_____
		Annual Expenses	_____
		Variable Expenses	_____
		Total Monthly Expenses	$ _____
		Balance	$ _____
			(Savings)

TEACHER'S COPY

Value

Brenda Fisher has partially completed a budget sheet filling in all of the estimated expenses which apply to her. Use the budget sheet to calculate the following.

(1) a. total fixed monthly expenses
= $875.00 + 326.00 + 41 + 86.50
= $1328.50

(1) b. total annual expenses
= $1344 + 839 + 150 + 48
= $2381

(1) c. monthly share of annual expenses

$$= \frac{\$2381}{12} = \$198.42$$

(2) d. total variable monthly expenses
= $462 + 65.80 + 44.95 + 32.70 + 26.88 + 96.00 + 24.00 + 244.00 + 12.00 + 52.00 + 115.50 + 35.00 + 46.80 + 34.20
= $1291.83

(2) e. balance (Note: Brenda has a monthly net income of $3000.00.)

Balance = $3000.00 – $1328.50 – $198.42 – $1291.83
= $181.25

Value

(2) 5. Ihor purchased a 9-year membership at a local health club for a cost of $472.50, not including sales tax. If the sales tax was 5.0%, how much did he pay in sales tax?

$$\begin{aligned}\text{Sales tax} &= \$472.50 \times 5\% \\ &= \$472.50 \times 0.05 \\ &= \$23.63\end{aligned}$$

(2) 6. Gladys is elated because she just bought a new diamond ring for $1550, which represented a huge 47% discount off the regular price. Calculate the regular price of the ring.

$$\begin{aligned}\text{Sale price} &= 100\% - 47\% \\ &= 53\%\end{aligned}$$

$$\begin{aligned}\text{Regular price} &= \frac{\$1550}{0.53} \\ &= \$2924.53\end{aligned}$$

(2) 7. The regular price of a spark plug at a local auto supply store is $1.49. This weekend, they are having a sale and the plugs are discounted 31%. Determine the sale price of each of the plugs.

$$\begin{aligned}\text{Discount} &= \$1.49 - 31\% \\ &= \$1.49 \times 0.31 \\ &= \$0.46\end{aligned}$$

$$\begin{aligned}\text{Sale price} &= \$1.49 - \$0.46 \\ &= \$1.03\end{aligned}$$

Value

8. Mr. R. Airdale is 23 and wants to purchase a $9000 20-payment life insurance policy. The insurance company has said they will reduce his annual premium by 9.3% because he is a nonsmoker.

(3) a. Use the table below to determine the annual premium, remembering to include the nonsmoker reduction.

Annual Premium Rates per $1000 Unit

age female	age male	term life	straight life	20-payment life	endowment 20 years
18	15	8.40	9.90	16.05	22.35
19	16	8.96	10.56	17.12	23.84
20	17	9.52	11.22	18.19	25.33
21	18	10.08	11.88	19.26	26.82
22	19	10.64	12.54	20.33	28.31
23	20	11.20	13.20	21.40	29.80
24	21	11.76	13.86	22.47	31.29
25	22	12.32	14.52	23.54	32.78
26	23	12.88	15.18	24.61	34.27
27	24	13.44	15.84	25.68	35.76
28	25	14.00	16.50	26.75	37.25
29	26	14.56	17.16	27.82	38.74
30	27	15.12	17.82	28.89	40.23
31	28	15.68	18.48	29.96	41.72
32	29	16.24	19.14	31.03	43.21
33	30	16.80	19.80	32.10	44.70

$$\text{Annual premium} = \$24.61 \times \frac{9000}{1000}$$
$$= \$221.49$$

$$\text{Nonsmoker discount} = \$221.49 \times 9.3\%$$
$$= \$221.49 \times 0.093$$
$$= \$20.60$$

$$\text{Nonsmoker premium} = \$221.49 - \$20.60$$
$$= \$200.89$$

(1) b. What is the total amount that he will save over the next 15 years because he is a nonsmoker?

$$\text{Nonsmoker savings} = \$20.60 \times 15$$
$$= \$309.00$$

Value

(2)

9. Marvin is 45 years of age. He has just purchased a $16 000.00 20-year life insurance policy. Use the table below to determine the cash surrender value of the policy when he is 55 years old.

Cash Surrender Value and Loan Value for $1000 Life Insurance

Number of years premium paid on a 20-year life insurance policy

age female	age male	5 years	10 years	15 years	20 years	65 years
20	25	47.75	122.50	234.75	325.75	756.75
25	30	57.30	147.00	281.70	390.90	718.10
30	35	66.85	171.50	328.65	456.05	679.45
35	40	76.40	196.00	375.60	521.20	640.80
40	45	85.95	220.50	422.55	586.35	602.15
45	50	95.50	245.00	469.50	651.50	563.50
50	55	105.05	269.50	516.45	716.65	524.85
55	60	114.60	294.00	563.40	781.80	486.20

$$\text{Cash surrender value} = \$220.50 \times \frac{16\,000.00}{1000}$$

$$= \$3528.00$$

UNIT 8

_____ Marks

TEACHER'S COPY

MATHEMATICS 24

FINAL TEST

GENERAL INSTRUCTIONS

1. The time limit for this test is as follows.
   Mathematics 24 for 3 credits: **$1\frac{1}{2}$ hours**
   Mathematics 24 for 5 credits: **2 hours**

2. Mathematics 24 for 3 credits consists of five units.
   Mathematics 24 for 5 credits consists of eight units.
   Check off the units that you have studied.

_____ 1. Work - Getting Paid	_____ 2. Work - Income Tax
_____ 3. Banking - Savings and Chequing Accounts	_____ 4. Banking - Borrowing Money and Using Credit Cards
_____ 5. Transportation - Owning a Vehicle	_____ 6. Transportation - Travelling
_____ 7. Accommodation	_____ 8. Cost of Independence

Complete only the portions of the test that correspond to the units you have checked off.

3. The total marks for this test are as follows.
   Mathematics 24 for 3 credits: **will vary with the units selected**
   Mathematics 24 for 5 credits: **150 marks**

4. Write all answers legibly in pen or pencil.

5. Calculators that are not programmed may be used.

6. For written response questions, be sure to show all your work. Part marks will be given for partially correct solutions.

7. It is better to complete all work which you know well first. After this you can deal with the more difficult ones. Do not spend too much time on any one problem. If you finish before the time limit, go back and check your answers.

Value

UNIT 1: WORK - GETTING PAID

(1) 1. Circle the correct response.

Workers earning a percentage of the sales price of a product or service are said to be working for

A. an hourly wage

B. piece work wages

C. minimum wage

D. commission

(2) 2. Teresa earns $6.25/h as a cashier at the local grocery store. Determine her straight-time pay for the following week.

Monday	Tuesday	Wednesday	Thursday	Friday
$5\frac{1}{4}$ h	$7\frac{1}{2}$ h	$6\frac{3}{4}$ h	7 h	$6\frac{1}{2}$ h

(1) 3. Ben Windslow earns $2375.00 semimonthly as an advertising executive. What is his annual salary?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 4. Peter earns $2.25 for each car he greases at a local service station. What is his pay for a week in which he greases 235 cars?

(2) 5. Steve Wiley receives a $5\frac{1}{2}\%$ straight commission for selling furniture at Sofaworld. Calculate Steve's earnings for a week in which he sold $14 375.00 worth of furniture.

(1) 6. Amanda is a lawyer for a large firm. She receives a monthly salary of $5934.00. Last month, she received a bonus of $988.00. How much did she earn last month?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 7. Maria York earns minimum wage in St. John's, Newfoundland, as a gas station attendant. Use the following chart to determine Maria's weekly salary for a $36\frac{1}{2}$ hour week.

Province	Minimum Wage	Province	Minimum Wage
Yukon	$4.75	Quebec	$4.55
Northwest Territories	$5.00	Ontario	$4.55
British Columbia	$4.00	New Brunswick	$4.00
Alberta	$4.50	Nova Scotia	$4.00
Saskatchewan	$4.50	Newfoundland	$4.25
Manitoba	$4.70	Prince Edward Island	$4.55

(3) 8. Axe Handle sells motorcycles. He earns $1250 per month plus a $5\frac{1}{4}\%$ commission on all bikes he sells. In April, Axe sold $127 500.00 worth of motorcycles. Calculate his total earnings for the month.

(2) 9. Candy Floss sells chocolates and earns $5.25 per hour, plus $0.45 for each sale she makes. On Friday, Candy worked $9\frac{1}{4}$ hours and had 38 sales. How much did Candy earn on Friday?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 10. Use the table below to determine the UIC premium of an employee who earns $401.65 per week.

Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*	Remuneration *Rémunération* From-*de*	To-*à*	U.I. Premium *Prime d'a.-c.*
367.88 -	368.29	8.65	398.52 -	398.93	9.37	429.15 -	429.57	10.09	459.79 -	460.21	10.81
368.30 -	368.72	8.66	398.94 -	399.36	9.38	429.58 -	429.99	10.10	460.22 -	460.63	10.82
368.73 -	369.14	8.67	399.37 -	399.78	9.39	430.00 -	430.42	10.11	460.64 -	461.06	10.83
369.15 -	369.57	8.68	399.79 -	400.21	9.40	430.43 -	430.85	10.12	461.07 -	461.48	10.84
369.58 -	369.99	8.69	400.22 -	400.63	9.41	430.86 -	431.27	10.13	461.49 -	461.91	10.85
370.00 -	370.42	8.70	400.64 -	401.06	9.42	431.28 -	431.70	10.14	461.92 -	462.34	10.86
370.43 -	370.85	8.71	401.07 -	401.48	9.43	431.71 -	432.12	10.15	462.35 -	462.76	10.87
370.86 -	371.27	8.72	401.49 -	401.91	9.44	432.13 -	432.55	10.16	462.77 -	463.19	10.88
371.28 -	371.70	8.73	401.92 -	402.34	9.45	432.56 -	432.97	10.17	463.20 -	463.61	10.89
371.71 -	372.12	8.74	402.35 -	402.76	9.46	432.98 -	433.40	10.18	463.62 -	464.04	10.90
372.13 -	372.55	8.75	402.77 -	403.19	9.47	433.41 -	433.82	10.19	464.05 -	464.46	10.91
372.56 -	372.97	8.76	403.20 -	403.61	9.48	433.83 -	434.25	10.20	464.47 -	464.89	10.92
372.98 -	373.40	8.77	403.62 -	404.04	9.49	434.26 -	434.68	10.21	464.90 -	465.31	10.93
373.41 -	373.82	8.78	404.05 -	404.46	9.50	434.69 -	435.10	10.22	465.32 -	465.74	10.94
373.83 -	374.25	8.79	404.47 -	404.89	9.51	435.11 -	435.53	10.23	465.75 -	466.17	10.95
374.26 -	374.68	8.80	404.90 -	405.31	9.52	435.54 -	435.95	10.24	466.18 -	466.59	10.96
374.69 -	375.10	8.81	405.32 -	405.74	9.53	435.96 -	436.38	10.25	466.60 -	467.02	10.97
375.11 -	375.53	8.82	405.75 -	406.17	9.54	436.39 -	436.80	10.26	467.03 -	467.44	10.98

1

UIC premium = _____

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 11. George Li earns $476.21 per week. He pays $11.19 in UIC premiums and $8.52 in CPP contributions. Calculate his taxable income.

(1) 12. Brenda Kushner earns $508.90 per week working as a legal assistant. Use the following table to determine the amount of income tax payable each week if her net claim code is 3.

ALBERTA
WEEKLY TAX DEDUCTIONS
Basis — 52 Pay Periods per Year

TABLE 1

ALBERTA
RETENUES D'IMPÔT PAR SEMAINE
Base — 52 périodes de paie par année

WEEKLY PAY / PAIE PAR SEMAINE — From - De / Less than / Moins que	IF THE EMPLOYEE'S "NET CLAIM CODE" ON FORM TD1 IS / SI LE CODE DE DEMANDE NETTE DE L'EMPLOYÉ SELON LA FORMULE TD1 EST DE										
	0	1	2	3	4	5	6	7	8	9	10
	DEDUCT FROM EACH PAY — *RETENEZ SUR CHAQUE PAIE*										
448.- 456.	114.90	80.80	77.20	70.05	62.85	55.65	47.75	39.45	31.10	22.80	14.50
456.- 464.	116.90	82.75	79.15	71.95	64.80	57.60	50.00	41.65	33.35	25.05	16.75
464.- 472.	118.95	84.70	81.10	73.90	66.75	59.55	52.25	43.90	35.60	27.30	19.00
472.- 480.	121.00	86.65	83.05	75.85	68.65	61.50	54.30	46.15	37.85	29.55	21.25
480.- 488.	123.00	88.60	85.00	77.80	70.60	63.45	56.25	48.40	40.10	31.80	23.50
488.- 496.	125.05	90.55	86.95	79.75	72.55	65.40	58.20	50.65	42.35	34.05	25.75
496.- 504.	127.10	92.50	88.90	81.70	74.50	67.30	60.15	52.90	44.60	36.30	28.00
504.- 512.	129.10	94.40	90.85	83.65	76.45	69.25	62.10	54.90	46.85	38.55	30.25
512.- 520.	131.15	96.40	92.80	85.60	78.45	71.25	64.05	56.85	49.15	40.85	32.55
520.- 528.	133.15	98.40	94.80	87.60	80.40	73.25	66.05	58.85	51.45	43.15	34.80
528.- 536.	135.65	100.80	97.20	90.00	82.80	75.65	68.45	61.25	54.05	45.90	37.60
536.- 544.	138.75	103.85	100.25	93.05	85.90	78.70	71.50	64.30	57.15	49.45	41.15
544.- 552.	141.85	106.90	103.30	96.15	88.95	81.75	74.55	67.40	60.20	53.00	44.70
552.- 560.	144.95	110.00	106.40	99.20	92.00	84.80	77.65	70.45	63.25	56.05	48.20
560.- 568.	148.05	113.05	109.45	102.25	95.05	87.90	80.70	73.50	66.30	59.15	51.75

1

Income tax payable = _____

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 13. John Smith earned an annual salary of $24 269.00, before deductions, in 1988. Calculate his CPP contibutions for 1988. Remember, all wage earners pay 2% of their earnings which exceed $2600 for CPP contributions to a maximum contribution of $478.00.

(2) 14. Use the following cheque stub to determine Patti's net earnings.

Speedy Rental
P.O. Box 1234
Anywhere, AB
P3A 3X5

Payroll Department

EARNINGS

empl. no.	pay period ending	reg. hrs.	O.T. hrs.	reg. pay	O.T. pay	total earnings
838	10-9-86	39	6	$683.38	$213.00	$896.38

DEDUCTIONS

Federal Tax	CPP	Union Dues	UIC	Hospital Medical	Group Ins.	Bonds	Charity	Net earnings
$268.91	$12.00	$20	$21.06	$14.20	$5.60	$20.00	$3.10	

UNIT 1

_____ Marks

[1] Revenue Canada. All tables are reprinted with permission of the Minister of Supply and Services Canada.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value **UNIT 2: INCOME**

(3) 1. Complete the T4 slip using the information that follows.

Name	Terry Morris
Province	Alberta
Employer	Ace Accounting
Salary	$18 024.75
Interest free loan	$ 1220.00
Car – personal	$ 615.00
CPP	$ 476.00
UIC	$ 586.00
Donations	$ 100.00
Tax deducted	$ 4506.19

Revenue Canada Taxation / Revenu Canada Impôt

T4-1988 Supplementary / ***Supplémentaire***

STATEMENT OF REMUNERATION PAID / ***ÉTAT DE LA RÉMUNÉRATION PAYÉE*** 13-343-023

(C) EMPLOYMENT INCOME BEFORE DEDUCTIONS / *REVENUS D'EMPLOI AVANT RETENUES*	(D) EMPLOYEE'S PENSION CONTRIBUTION CANADA PLAN / *DU CANADA*	QUEBEC PLAN / *DU QUÉBEC*	(E) UI PREMIUM / *PRIME D'A - C*	(F) REGISTERED PENSION PLAN CONTRIBUTION / *COTISATIONS RÉGIME ENREGISTRÉ DE PENSIONS*	(G) INCOME TAX DEDUCTED / *IMPÔT SUR LE REVENU RETENU*	(H) UI INSURABLE EARNINGS / *GAINS ASSURABLES A - C*	(I) CPP PENSIONABLE EARNINGS / *GAINS OUVRANT DROIT À PENSIONS - RPC*	(J) EXEMPT CPP/QPP / RPC/RRQ UI / A - C / *EXONÉRATION*
	COTISATION DE PENSION (EMPLOYÉ)							

BOX (C) AMOUNT ALREADY INCLUDES ANY AMOUNTS IN BOXES (K), (L), (M), (N), (O), and (P) / *LE MONTANT DE LA CASE (C) COMPREND DÉJÀ TOUS LES MONTANTS DES CASES (K), (L), (M), (N), (O), ET (P)*	TAXABLE ALLOWANCES AND BENEFITS / *AVANTAGES IMPOSABLES*	(K) HOUSING BOARD AND LODGING / *LOGEMENT PENSION ET LOGEMENT*	(L) TRAVEL IN A PRESCRIBED AREA / *VOYAGE DANS UNE RÉGION VISÉE PAR RÈGLEMENT*	(M) PERSONAL USE OF EMPLOYER'S AUTO / *USAGE PERSONNEL DE L'AUTO DE L'EMPLOYEUR*	(N) INTEREST FREE AND LOW INTEREST LOANS / *PRÊTS SANS INTÉRÊT OU À FAIBLE INTÉRÊT*	(O) OTHER TAXABLE ALLOW. AND BENEFITS / *AUTRES AVANTAGES IMPOSABLES*	(P) EMPLOYMENT COMMISSIONS / *COMMISSIONS D'EMPLOI*

(Q) UNION DUES / *COTISATIONS SYNDICALES*	(R) CHARITABLE DONATIONS / *DONS DE CHARITÉ*	(S) PAYMENTS TO DPSP / *PAIEMENTS À UN RPDB*	(T) PENSION PLAN OR DEFERRED PROFIT SHARING PLAN REGISTRATION NUMBER / *N° ENREGISTREMENT DE RÉGIME DE PENSION OU DE PARTICIPATION DIFFÉRÉE AUX BÉNÉFICES*	(A) PROVINCE OF EMPLOYMENT / *PROVINCE D'EMPLOI*	(B) SOCIAL INSURANCE NUMBER / *N° D'ASSURANCE SOCIALE*

EMPLOYEE: SURNAME FIRST (in capital letters) USUAL FIRST NAME AND INITIALS AND FULL ADDRESS
EMPLOYÉ: NOM DE FAMILLE D'ABORD (en capitales) PRÉNOM USUEL ET ADRESSE COMPLÈTE
SURNAME *NOM DE FAMILLE* USUAL FIRST NAME AND INITIALS - *PRÉNOM USUEL*

FOOTNOTES:
NOTES:

EMPLOYER NAME / *NOM DE L'EMPLOYEUR*

ACCOUNT NUMBER / *NUMÉRO DE COMPTE* | EMPLOYEE NO. / *N° DE L'EMPLOYÉ*

TO BE RETURNED WITH T4 - T4A SUMMARY / ***À RETOURNER AVEC LA T4 - T4A SOMMAIRE*** 1

1

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(3) 2. Use the following section of the T1 General to calculate your total income given the following:

- total income from Box C of T4 slip = $35 087.50
- family allowance = $776.00
- interest income = $283.65
- net rental income = $3360.00
- income from a part-time job = $1284.30

Step 2 - Calculation of Total Income

Please do not use this area

Employment Income	Employment income before deductions from Box (C) on all T4 slips (attach copy 2 of T4 slips)			101		⊙
	Commissions from Box (P) on all T4 slips, included in above total		102			
	Other employment income including training allowances, tips and gratuities, etc. (please specify)			104		⊙
	Total employment earnings (add lines 101 and 104)			105		
Pension Income	Old Age Security pension (attach copy of T4A(OAS) slip)			113		⊙
	Canada or Quebec Pension Plan benefits (attach copy 2 of T4A(P) slip)			114		⊙
	Other pensions or superannuation (attach copy 3 of T4A slips)			115		⊙
Income from Other Sources	Taxable family allowance payments (attach copy of TFA1 slip)			118		⊙
	Unemployment Insurance benefits (attach copy 2 of T4U slip)			119		⊙
	Taxable amount of dividends from taxable Canadian corporations (attach completed Schedule 4)			120		⊙
	Interest and other investment income (attach completed Schedule 4)			121		⊙
	Partnership income - limited or non-active partners only (attach completed Schedule 4)		Net	122		⊙
	Rental income	Gross 160	Net	126		⊙
	Taxable capital gains (attach completed Schedule 3)			127		
	Alimony or separation allowance income			128		⊙
	Registered retirement savings plan income (attach T4RSP slips)			129		⊙
	Other income (please specify)			130		⊙
Self-Employment Income	Business income	Gross 162	Net	135		⊙
	Professional income	Gross 164	Net	137		⊙
	Commission income	Gross 166	Net	139		⊙
	Farming income	Gross 168	Net	141		⊙
	Fishing income	Gross 170	Net	143		⊙
Total Income (add lines 105 to 143 inclusive - please enter this amount on line 200 on page 2)				150		▶

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(5) 3. Bonnie Desjarlais works for Telephone International as a line manager and had a taxable income of $26 534.00 as determined from line 260 of the tax return. She also had tax credits totalling $1260.00. Determine the net federal tax (line 420), the net Alberta tax payable (line 427), and the total payable (line 435). Use the forms and the tax tables (A and B) that follow.

Step 5 - Summary of Tax and Credits There are two methods of tax calculation (see Tax Tables in Guide). 4

Taxable Income from line 260 on page 2 400

TAX TABLE METHOD ONLY

Federal Income Tax from Tax Table A in Guide		401	
Subtract: Total non-refundable tax credits from line 350 on page 2		402	
Federal Tax (line 401 minus line 402 - if negative, enter zero **or** from line 406 on Schedule 1)		406	
Subtract: **Federal political contribution tax credit** Total contributions **409**		⊙	
from calculation in Guide — Allowable tax credit **410**			
Investment tax credit **412**		•	
Labour-Sponsored Funds tax credit (attach receipts) **414**		•	
Total of above credits 416		▶	
Federal tax before federal individual surtax (line 406 minus line 416 - if negative, enter zero)		417	
Add: **Federal individual surtax** (look up line 406 amount on Tax Table B in Guide **or** from line 419 on Schedule 1)		419	
Net Federal Tax		420	
Add: **Alberta tax** from form T1C (ALTA.) 423			
Add: **Recovery of Alberta Stock Savings Plan tax credit** from form T89 **424**		•	
Net Alberta Tax 427		▶	
Canada Pension Plan contribution payable on self-employment earnings from page 3		432	
Unemployment Insurance benefit repayment payable from calculation in Guide		433	
Recovery of child tax credit overpayment from Schedule 7		**434**	•
Total Payable (add line 420 and lines 427 to 434 inclusive)		**435**	•

1

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

Alberta T1C (ALTA.)

Alberta Income Tax (Applicable to residents of Alberta on December 31, 1988)

If you were not a resident of Alberta on December 31, 1988 or if you had income from a business with a permanent establishment outside Alberta in 1988, refer to the Guide

Basic Alberta Income Tax - from Tax Table B in Guide or 46.5% of "Basic Federal Tax" on Schedule 1			
Add: Alberta Surtax - 8% of ("Basic Alberta Income Tax" in excess of $3,500.00)			
Add: Alberta Flat Rate Tax - 0.5% of Taxable Income (line 400 on your return)			
Adjusted Alberta Income Tax			
Subtract: Royalty Tax Rebate applied (from line (H) on form T79)			
Alberta Income Tax after rebate (A)			
Subtract: Alberta Selective Tax Reduction			
Basic Claim	430 00		
Subtract ½ of Alberta Income Tax after rebate (amount (A) above)			
Total (if negative, there is no reduction, enter zero) (B)			
Subtract amount (A) or amount (B), whichever is less, as the tax reduction			
Reduced Alberta Income Tax			
Subtract: Provincial Foreign Tax Credit from calculation on form T2036			
Alberta Tax (please enter this amount on line 423 on your return)			

1

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

TAX TABLE A

Column 1 Taxable Income (line 400) over	not over	Column 2 Federal Income Tax (line 401)
$26500	26510	$4506
26510	26520	4508
26520	26530	4509
26530	26540	4511
26540	26550	4513
26550	26560	4514
26560	26570	4516
26570	26580	4518
26580	26590	4519
26590	26600	4521

1

TAX TABLE B

Column 1 Federal Tax (line 406) over	not over	Column 2 Individual Surtax (line 419)	Column 3 Basic Alberta Income Tax (form T1C-ALTA)	Column 1 Federal Tax (line 406) over	not over	Column 2 Individual Surtax (line 419)	Column 3 Basic Alberta Income Tax (form T1C-ALTA)
$3240	3242	$ 97	$ 1507.10	$3440	3442	$ 103	$ 1600.10
3242	3244	97	1508.00	3442	3444	103	1601.00
3244	3246	97	1508.90	3444	3446	103	1601.90
3246	3248	97	1509.90	3446	3448	103	1602.90
3248	3250	97	1510.80	3448	3450	103	1603.80
3250	3252	98	1511.70	3450	3452	104	1604.70
3252	3254	98	1512.60	3452	3454	104	1605.60
3254	3256	98	1513.60	3454	3456	104	1606.60
3256	3258	98	1514.50	3456	3458	104	1607.50
3258	3260	98	1515.40	3458	3460	104	1608.40
$3260	3262	$ 98	$ 1516.40	$3460	3462	$ 104	$ 1609.40
3262	3264	98	1517.30	3462	3464	104	1610.30
3264	3266	98	1518.20	3464	3466	104	1611.20
3266	3268	98	1519.20	3466	3468	104	1612.20
3268	3270	98	1520.10	3468	3470	104	1613.10
3270	3272	98	1521.00	3470	3472	104	1614.00
3272	3274	98	1521.90	3472	3474	104	1614.90
3274	3276	98	1522.90	3474	3476	104	1615.90
3276	3278	98	1523.80	3476	3478	104	1616.80
3278	3280	98	1524.70	3478	3480	104	1617.70

1

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(4) 4. Shelley Grant works for Horkoff Survey doing data entry. She is single and goes to school part time. Last year, she paid $434.00 to CPP, $611.25 to UIC, paid school tuition of $225.00, and donated $380.00 to the Canadian Society of Starting Artists. Use the following form and the given information to calculate the total of Shelley's non-refundable tax credits.

Step 4 - Calculation of Total Non-Refundable Tax Credits

Non-Refundable Tax Credits

Basic personal amount	Claim $6,000.00	300		
Age amount, if you were born in 1923 or earlier (if you did not receive the Old Age Security pension, attach a letter giving reasons)	Claim $3,236.00	301		
Married amount (provide details on page 3)		303		⊙
Amounts for dependent children (provide details on page 3)		304		⊙
Additional personal amounts (attach completed Schedule 6)		305		⊙
Canada or Quebec Pension Plan contributions				
Contributions through employment from Box (D) on all T4 slips (maximum $478.00)		308		• ⊙
Contribution payable on self-employment earnings (from page 3)		310		•
Unemployment Insurance premiums from Box (E) on all T4 slips (maximum $690.56)		312		• ⊙
Eligible pension income amount (maximum $1,000)		314		⊙
Disability amount for self (claim $3,236.00)		316		⊙
Disability amount for dependant other than spouse		318		⊙
Tuition fees for self (attach receipts)		320		⊙
Education amount for self (attach form T2202 or T2202A)		322		⊙
Tuition fees and education amount transferred from child (attach form T2202 or T2202A)		324		⊙
Amounts transferred from spouse (attach completed Schedule 2)		326		⊙
Medical expenses (attach receipts and complete Schedule 5) 330				⊙
Subtract: 3% of "Net Income" (line 236 above) (maximum $1,500)				
Allowable portion of medical expenses		▶ 332		
Add lines 300 to 326 inclusive and line 332 (IF THIS AMOUNT EXCEEDS THE AMOUNT AT LINE 260, SEE "LINE 335" IN GUIDE)		335		
Non-refundable tax credits - 17% of line 335 or see Tax Table A instructions in Guide				338
Add: Charitable donations and gifts to Canada or a province (attach receipts)				
Charitable donations (attach completed Schedule 5) 340		⊙		
Gifts to Canada, a province or gifts of cultural property 342		⊙		
Total Donations 344				
On the first $250 or less			the credit at 17% is	346
On the balance			the credit at 29% is	348
Total Non-Refundable Tax Credits (add lines 338, 346 and 348) (proceed to Step 5 on page 4)				350

[1]

UNIT 2

_____ **Marks**

[1] Revenue Canada. All tax forms and tables are reprinted with permission of the Minister of Supply and Services Canada.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

UNIT 3: BANKING - SAVINGS AND CHEQUING ACCOUNTS

Value

(1)

1. Circle the correct response.

   Which of the following investments may be used to reduce your taxable income?

   A. Registered Retirement Savings Plan

   B. Treasury Bill

   C. Canada Savings Bond

   D. Term Deposit

(2)

2. Bill Garnet wants to withdraw $345.00 from his savings account on July 12, 1989. Bill's savings account number is 006-2345. Complete the withdrawal slip shown below for Bill.

SAVINGS WITHDRAWAL _____ 19

RECEIVED
FROM THE BANK OF ALBERTA $ _____

_____ _____ DOLLARS

ACCOUNT NUMBER _____

_____
(Please sign in presence of Teller)

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 3. Use the information below to find the new balance of Lloyd's savings account.

July 1	:	Balance forward	= $1642.17
July 12	:	Deposit	= $ 386.40
July 24	:	Deposit	= $ 132.65
July 31	:	Interest	= $ 28.93
August 12	:	Deposit	= $ 632.88
August 27	:	Withdrawal	= $ 192.50
September 5	:	Deposit	= $ 377.41
September 2	:	Withdrawal	= $ 530.84

(2) 4. Amy borrowed $16 875.00 at a simple interest rate of $12\frac{1}{2}\%$ per year. Calculate the interest charged after 32 months.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(3) 5. Use the Compound Interest Table to answer the question that follows.

Compound Interest Table for One Dollar

Number of Periods	1.5%	2%	2.5%	3%	3.5%	4%	5%	6%	7%	8%
1	1.0150	1.0200	1.0250	1.0300	1.0350	1.0400	1.0500	1.0600	1.0700	1.0800
2	1.0302	1.0404	1.0506	1.0609	1.0712	1.0816	1.1025	1.1236	1.1449	1.1664
3	1.0457	1.0612	1.0769	1.0927	1.1087	1.1248	1.1576	1.1910	1.2250	1.2597
4	1.0614	1.0824	1.1038	1.1255	1.1475	1.1699	1.2155	1.2625	1.3108	1.3605
5	1.0773	1.1041	1.1314	1.1593	1.1877	1.2167	1.2763	1.3382	1.4026	1.4693
6	1.0934	1.1262	1.1597	1.1941	1.2293	1.2653	1.3401	1.4186	1.5007	1.5869
7	1.1098	1.1487	1.1887	1.2299	1.2723	1.3159	1.4071	1.5036	1.6058	1.7138
8	1.1265	1.1717	1.2184	1.2668	1.3168	1.3686	1.4775	1.5938	1.7182	1.8059
9	1.1434	1.1951	1.2489	1.3048	1.3629	1.4233	1.5513	1.6895	1.8385	1.9990
10	1.1605	1.2190	1.2801	1.3439	1.4106	1.4802	1.6289	1.7906	1.9672	2.1589
11	1.1779	1.2434	1.3121	1.3842	1.4600	1.5395	1.7103	1.8963	2.1040	2.3316
12	1.1956	1.2682	1.3449	1.4258	1.5111	1.6010	1.7959	2.0122	2.2522	2.5182
13	1.2136	1.2936	1.3785	1.4685	1.5640	1.6651	1.8856	2.1329	2.4098	2.7196
14	1.2318	1.3195	1.4130	1.5126	1.6187	1.7317	1.9799	2.2609	2.5785	2.9372
15	1.2502	1.3459	1.4483	1.5580	1.6753	1.8009	2.0789	2.3966	2.7590	3.1722
16	1.2690	1.3728	1.4845	1.6047	1.7340	1.8730	2.1829	2.5404	2.9522	3.4259
17	1.2880	1.4002	1.5216	1.6528	1.7947	1.9479	2.2920	2.6928	3.1588	3.7000
18	1.3073	1.4282	1.5597	1.7024	1.8575	2.0258	2.4066	2.8543	3.3799	3.9960
19	1.3270	1.4568	1.5987	1.7535	1.9225	2.1068	2.5270	3.0256	3.6165	4.3157
20	1.3469	1.4859	1.6386	1.8061	1.9898	2.1911	2.6533	3.2071	3.8697	4.6610
21	1.3671	1.5157	1.6796	1.8603	2.0594	2.2788	2.7860	3.3996	4.1406	5.0338
22	1.3876	1.5460	1.7216	1.9161	2.1315	2.3699	2.9253	3.6035	4.4304	5.4365
23	1.4084	1.5769	1.7646	1.9736	2.2061	2.4647	3.0715	3.8198	4.7405	5.8715
24	1.4295	1.6084	1.8087	2.0328	2.2833	2.5633	3.2251	4.0489	5.0724	6.3412
25	1.4509	1.6407	1.8539	2.0938	2.3673	2.6658	3.3864	4.2919	5.4274	6.8485

Cindy Sandstone has $3850.00 in a savings account that pays interest at a rate of 8% per annum compounded semiannually. How much interest will Cindy earn in 4 years?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(3) 6. List 3 potential service charges associated with a chequing account.

(2) 7. On September 20, 1989, Stephanie Roads deposited a cheque for $1215.82 into her chequing account, #004-637825. Stephanie also withdrew $150.00 in cash. Complete the deposit slip for this account.

THE BANK OF ALBERTA **DEPOSIT**

CASH		
CHEQUES/ COUPONS		
SUB TOTAL		
LESS CASH		
AMOUNT		

Date

Depositor's Initals

SIGNATURE - CASH RECEIVED

BRANCH NO.	ACCOUNT NO.	NAME - (PLEASE PRINT)

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

Use the bank statement below to answer questions **8** to **10**.

THE BANK
OF ALBERTA

STATEMENT OF ACCOUNT

PLEASE NOTIFY US OF ANY CHANGE IN YOUR ADDRESS

ACCOUNT NO.	PAGE
1004-363	1
September 3/89 STATEMENT DATE	1 ENCLOSURES

Wolfgang Stern
1313 - Werewolf Lane
Silverbullet, Alberta W0L 0F0

OVERDRAWN
BALANCE

BALANCE FORWARD FROM PREVIOUS STATEMENT 2630.90

DESCRIPTION DEBITS/CHEQUES		DEPOSITS/CREDITS	DATE M	D
ATM - DEP		400.00	08	03
ATM - WD	150.00		08	07
DEP		23.50	08	09
TRANSFER	1565.00		08	10
CHEQUE 101	36.95		08	10
ATM - DEP		120.00	08	15
CHEQUE 103	644.21			
SERVICE CHARGES	6.00			

NO. DEBITS	TOTAL AMOUNT DEBIT	NO. CREDITS	TOTAL AMOUNT CREDIT	
5		3		LAST STATEMENT 03 AUGUST

PLEASE CHECK THIS STATEMENT WITHOUT DELAY
THE BANK MUST BE NOTIFIED IN WRITING OF ANY ERROR OR OMISSION WITHIN 30 DAYS

(1) 8. What were Wolfgang's total debits?

(1) 9. What were the total credits?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 10. Determine the balance in Wolfgang's account September 3, 1989.

(2) 11. Reconcile the bank statement information with the cheque register balance. Find the true amount in this chequing account.

Bank balance	-	$944.68
Outstanding deposits	-	$ 75.00
	-	$126.75
	-	$ 44.32
Outstanding cheques	-	$ 19.95
	-	$ 27.80
	-	$478.36
	-	$ 95.44
Service charge	-	$ 5.25
Cheque register balance	-	$580.95
True amount	=	_____

UNIT 3

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

UNIT 4: BANKING - BORROWING MONEY AND USING CREDIT CARDS

(1) 1. Circle the correct response.

The institution which charges the lowest interest rates to its loan customers is the

A. retailer

B. trust company

C. credit union

D. finance company

(3) 2. Joanne obtained a demand loan of $630.00 for 162 days. At maturity, she paid $44.74 in interest for this loan. Determine the interest rate that was charged for this loan.

(2) 3. Abdul borrowed $4605.00 from his dad to buy a car. He agreed to pay back the loan after one year and pay simple interest of 15.0% per year. How much would Abdul owe his dad after one year?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1)

4. Use the monthly instalment table to answer the question that follows.

Interest Rate	Time in Months	Principal of $100 Monthly payment will be
10%	6	17.16
	12	8.79
	18	6.01
	24	4.61
12%	6	17.26
	12	8.89
	18	6.11
	24	4.71
15%	6	17.40
	12	9.03
	18	6.24
	24	4.85
18%	6	17.55
	12	9.17
	18	6.38
	24	4.99
20%	6	17.65
	12	9.27
	18	6.48
	24	5.09
24%	6	17.85
	12	9.47
	18	6.58
	24	5.29

Kara purchased a new car by trading in her old car and obtaining an instalment loan of $5200.00 at 18% to be repaid monthly for 12 months. Find the total amount to be repaid.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

Use the credit card sales receipt below to answer questions 5 to 7.

5024576 04/88 04/92 Ken James Lone Star Building Services	Quantity	Description	Unit Price	Amount
	2	boxes	2.40	4.80
	4	nails	2.10	8.40
	7	plates	1.50	10.50
	4	washers	3.10	12.40
Signature	Date June 2/89		Sub-total	
			Tax	
			Total	

(1) 5. What is the expiry date of Ken James's credit card?

(1) 6. What is the total cost of Ken's purchase?

(1) 7. What would be the total cost if you had to pay an 8% sales tax?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 8. Your credit card bill was $1829.45 for the month of September and you did not pay it. In October, you made additional charges of $645.00. How much would you owe the credit card company when you receive your next statement? (The credit card company charges an annual interest rate of 21.0%.)

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2)

9. For Victoria's credit card monthly statement below, identify the amount due. The amount due is 6% of the new balance.

Previous Balance $440.00	Payments $160.00	Credits $30.00
Unpaid balance	Finance charge $9.70	Purchases $240.00
	New Balance	Amount Due
Pay new balance by to avoid finance charges	May 5/89	

UNIT 4

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

UNIT 5: TRANSPORTATION - OWNING A VEHICLE

(1) 1. Francis is purchasing a new Firebird[1]. Calculate the full list price of his car which includes the indicated options.

C/C	Description	List Price
	Firebird[1] (Base Price)	14 700.00
ADL	Automatic Transmission	500.00
PW2	Power Door Locks	520.00
BLC	Block Heater	38.00
SPA	Sound System	800.00
CK1	Cruise Control	510.00
633	Destination Charges	460.00

(3) 2. June Kerr sold her 1983 automobile for $6540.00. She originally paid $15 800.00 for the car. What was the percent depreciation on her car?

[1] Courtesy of *General Motors of Canada Ltd.* for the use of their name.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 3. George wanted to know how much it cost for gasoline for the round trip from Milk River to Lavoy. Thus, he kept track at each fill-up. His first fill-up took 12 L at $0.43/L. His next fill-up took 49 L at $0.50/L. His last three fill-ups each took 30 L at $0.48/L. Determine the total cost of gasoline.

(2) 4. On a recent trip to Calgary, David had car trouble. He took the car to a local service station where they told him that he needed a new ignition switch. The part cost $82.50 and required 2.6 hours to install it. What was his total cost if the labour rate was $39.00 per hour?

(2) 5. Janette plans to purchase a new car. A local dealer will sell her the car she wants for $14 600. However, she can lease the car for a 36-month period for $200 per month, with an option to buy the car at the end of the lease period for $10 950. How much more will the lease plan cost than the straight purchase plan?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 6. Sanjay Kumar pays $750 per year for car insurance. He is a class 2 driver with 6 accident-free years. If he pays on a monthly basis, calculate his monthly payment.

(1) 7. Circle the correct response.

Insurance premiums are highest on newer vehicles.

A. True

B. False

UNIT 5

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

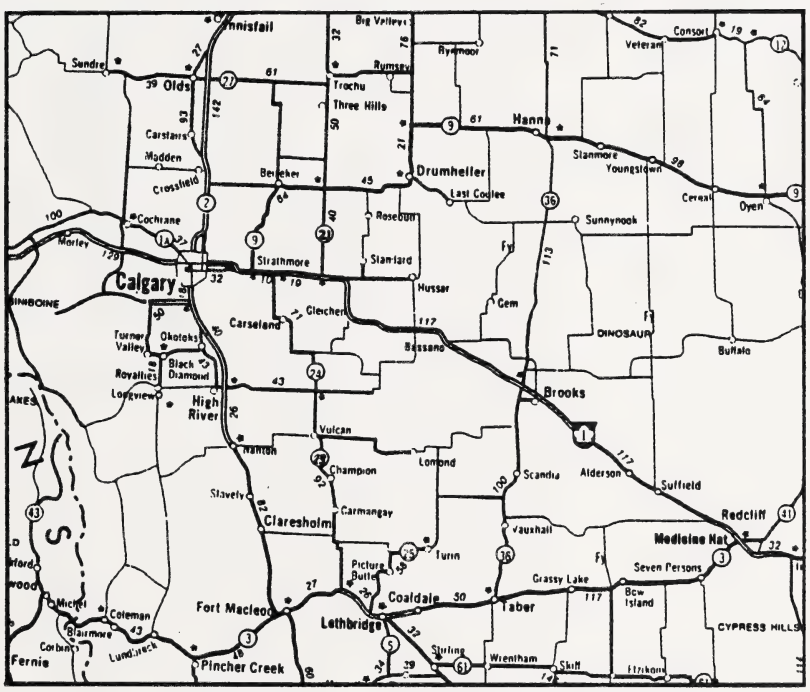
UNIT 6: TRANSPORTATION - TRAVELLING

(2)

1. From the map below, determine the distance from

   a. Oyen to Drumheller. _____ km

   b. Taber to Calgary. _____ km



Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(5)

2. Rebecca and Gary are planning on driving from Calgary to Winnipeg for a ten-day holiday, a distance of 2700 km return. Their car has a fuel consumption rating of 8.4 L/100 km, and the couple expect to pay an average of 51.8¢/L for gasoline during the trip. Rebecca estimates the nightly cost of a room to be $64.50 plus a 12% room tax. The couple will need a room for 9 nights. Gary estimates that the couple will spend $421.00 on meals (including tips). Calculate the total cost of Rebecca and Gary's trip.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2)

3. From the fare summary below, determine the total one-way fare for Margaret Olson and her 8-year-old daughter travelling full fare from Calgary to Ottawa. Add 10% tax to the fare, to a maximum of $50.00 per person.

Fare Summary: from Calgary to

Fare Code	Winnipeg			Ottawa			Montreal		
One Way	Adult $	Spouse $	Child under 12 $	Adult $	Spouse $	Child under 12 $	Adult $	Spouse $	Child under 12 $
F	237	201	165	594	504	415			
Ex	184	156	129	458	389	320	544	462	380
Y	171	141	117	426	363	294	507	428	353
SS	148	148	148	256	256	256	462	462	462

F - Full fare Ex - Executive class Y - Economy Class SS - Seat Sale

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(1) 4. Suppose Jerry and June Farmer took their 7 children on vacation to Culver City, California. From the chart below, determine what the cost is for them to tour Universal Studios for one afternoon.

California Bus Tours

Tour Description	Length of Tour	Price Adults	Price Child
L.A./Hollywood by night	7 hours	$38.00	$25.00
Universal Studios Morning	6.5 hours	51.00	36.00
Universal Studios Afternoon	6.5 hours	51.00	36.00
Tijuana Shopping	12 hours	47.00	28.00
Sea World	10 hours	53.00	32.00
San Diego Zoo	10 hours	46.00	28.00
Queen Mary	6 hours	25.00	18.00
Knotts Berry Fam		30.00	19.00

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 5. Nick is planning a trip to Greece. How much will it cost him to buy 60 000 Drachmas?

Traveller's Currency Guide

		One Foreign Currency Unit Equals
U.S.	Dollar	Cdn $1.2279
British	Pound	Cdn $2.0961
Swiss	Franc	Cdn $0.8115
Japanese	Yen	Cdn $0.00937
French	Franc	Cdn $0.1999
Greek	Drachma	Cdn $0.00917
Belgian	Franc	Cdn $0.0325
Spanish	Peseta	Cdn $0.01037

UNIT 6

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

UNIT 7: ACCOMMODATION

1. Terri Turner is renting an apartment and has the following monthly expenses. Her take-home pay is $1535.00 per month. Answer the following questions. Express your answers to two decimal places where neccessary.

Expense Item	Cost
rent	$395.00
utilities	$105.00
insurance	$ 40.00
food and clothing	$ 90.00
automobile expenses	$105.00
entertainment	$155.00
miscellaneous	$185.00

(1) a. What percent of Terri's monthly income is spent on utilities?

(2) b. What percent of her monthly income is left to put into a savings account?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 2. Buying a house costs quite a bit more than just the legal fees and the down payment. Besides these costs, there are a variety of other expenses as listed below. Determine the initial cost if the down payment is 20% of the $88 900 purchase price.

Expense Item	Cost
property survey	$350.00
insurance	$200.00
legal	$300.00
mortgage fees	$540.00
taxes	$370.00

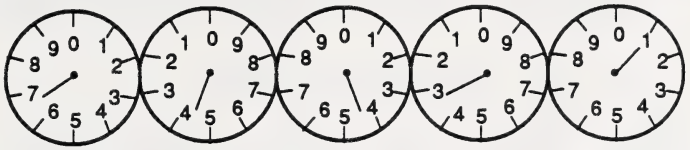
(2) 3. Jacob Hilliar has decided to move into a new apartment. He earns $3250.00 per month and can afford to spend 43% of his salary on rent. What is the most expensive apartment that he can afford?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

4. The power company read Tracy's meter at the end of January. The electric meter is shown below.



(1) a. What is the reading on the above meter?

(2) b. Tracy's previous meter reading was 63 066. Calculate the amount of her electric bill if the power company charges 4.3¢ per kilowatt hour. (The reading on the meter is shown in kilowatt hours.)

(2) 5. The Marsh family is planning a move from Edmonton to East Bay. The distance is 745 km. Ajax Movers will move them for a minimum charge of $490 and an additional fee of $0.25/km. How much would Ajax charge the family?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(3) 6. The mortgage on B.E. Wealthy's home is $65 800 payable in monthly installments over a period of 13 years at 8% per annum compounded semiannually. Use the following table to find the monthly payment necessary to amortize the mortgage.

Monthly Mortgage Loan Table Unit = $1.00

Period in Months	$\frac{1}{2}$% per month	$\frac{2}{3}$% per month	$\frac{3}{4}$% per month	$\frac{5}{6}$% per month	1% per month	$1\frac{1}{4}$% per month
138	0.010 012	0.011 036	0.011 566	0.012 107	0.013 220	0.014 962
144	0.009 721	0.010 754	0.011 288	0.011 835	0.012 960	0.014 722
150	0.009 454	0.010 496	0.011 035	0.011 587	0.012 724	0.014 505
156	0.009 209	0.010 259	0.010 803	0.011 360	0.012 509	0.014 310
162	0.005 653	0.010 041	0.010 590	0.011 152	0.012 312	0.014 132
168	0.008 774	0.009 840	0.010 394	0.010 961	0.012 133	0.013 971
174	0.008 580	0.009 654	0.010 213	0.010 786	0.011 968	0.013 824
180	0.008 399	0.009 482	0.010 046	0.010 623	0.011 817	0.013 691
186	0.008 231	0.009 322	0.009 891	0.010 473	0.011 677	0.013 569
192	0.008 075	0.009 174	0.009 747	0.010 334	0.011 549	0.013 457

(1) 7. Circle the correct response.

A mortgage which has been paid out or has expired is said to be

A. amortized

B. discharged

C. open

D. foreclosed

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 8. You have applied for a mortgage on a house you want to buy. The appraised value of the house is $89 900. Your lending institution has agreed to finance 85% of the value of the property. How much money will you have to come up with in order to buy the house?

(2) 9. Harold Thomson owns a stylish old home that has a replacement value of $138 800. He insures it for 82% of its replacement value. What is the amount of coverage on Harold's home?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

Use the following table to answer questions **10** and **11.**

Annual Premiums for a Typical Homeowner's Policy								
Amount of Insurance Coverage	Brick/Masonry Veneer				Wood Frame			
	Fire Protection Class				Fire Protection Class			
	1-6	7-8	9	10	1-6	7-8	9	10
$ 10 000	$ 84	$ 91	$ 108	$ 113	$ 91	$ 95	$ 113	$ 119
15 000	89	95	114	119	95	100	119	126
20 000	93	100	120	126	100	105	126	133
25 000	98	105	126	132	105	110	132	139
30 000	107	115	138	144	115	121	144	152
35 000	117	126	151	158	126	132	158	167
40 000	127	136	164	171	136	143	171	181
50 000	146	157	188	197	157	165	197	209
60 000	169	182	219	229	182	191	229	242
70 000	193	208	250	262	208	218	262	277
80 000	222	239	288	301	239	251	301	319
90 000	250	270	325	341	270	283	341	361
100 000	280	302	364	381	302	317	381	404
150 000	425	459	554	581	459	482	581	615

Value

10. The Rondeaus own a brick home that has a replacement value of $135 000. They want to purchase a homeowner's policy for 60% of the replacment value. The Rondeaus live in an area that has a class 10 fire protection rating. Round the amount of coverage to the nearest $10 000.

(2) a. What is the amount of coverage?

Round the amount of coverage to $80 000.

(1) b. What is their annual policy premium?

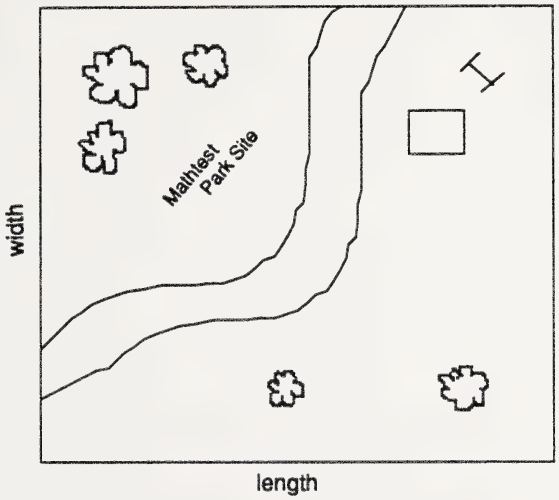
(1) 11. Linda Hammer owns a wood frame house with a $30 000.00 homeowner's insurance policy with a class 2 protection clause. Determine Linda's annual premium.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(4) 12. Find the actual dimensions of a proposed park site from the scale drawing given below. The scale used was 1 cm = 47 m.



Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 13. A carpet distributor measures the length and the width of a rectangular room as 7 m and 4 m respectively. Calculate the cost of carpeting the room with carpet that sells for $\$24.95 / m^2$.

UNIT 7

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

UNIT 8: COST OF INDEPENDENCE

(1)

1. Circle the correct response.

When you buy a sale item, the amount you save is known as the

A. sale price

B. regular price

C. discount

D. unit price

(2)

2. Emily Mars has the following annual expenses. Determine her monthly share.

Life insurance	= $ 275.00
Home insurance	= $ 143.00
Car insurance	= $ 560.00
Property taxes	= $1198.00

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 3. Bernard Hoffman is keeping records of his income for 4 months. Determine his average monthly income.

March	April	May	June
Salary $2280 Man. Rebate $15	Salary $2280 Bonus $306	Salary $2280 Interest $36	Salary $2280
$2295	$2586	$2316	$2280

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

4. Use the budget sheet below to answer the question that follows.

Budget Sheet (Budgeted expenditures)

Name: Brenda Fisher Date:

Fixed Monthly Expenses		Variable Monthly Expenses	
Rent or Mortgage	$ 875.00	Food	$ 462.00
Car payment	326.00	Household:	
Instalment payments		Electricity	65.80
a. Furniture		Heating fuel	44.95
b. Appliances		Telephone	32.70
c.		Water, garbage, sewer	26.88
Savings	41.00	Other	
Emergency Fund	86.50		
		Transportation:	
Total	$_____	Gas, oil	96.00
Annual Expenses		Parking	24.00
		Commuting	
Property tax	1344.00	Other	
Car insurance	839.00	Personal spending:	
Life insurance	150.00	Clothing	244.00
Renter's insurance		Newspaper/magazine	12.00
License plates	48.00	Pocket money	52.00
Other		Gifts, contributions	115.50
		Entertainment:	
Total	$_____	Movie/theatre	35.00
		Sports events	
Reserved monthly		Recreation	46.80
(divided by 12)	$_____	Dining out	34.20
		Miscellaneous	
		Total	$_____

Monthly Spending Plan	
Net income	$ _____
Expenses:	
Fixed Expenses	_____
Annual Expenses	_____
Variable Expenses	_____
Total Monthly Expenses	$ _____
Balance	$ _____
	(Savings)

Value

Brenda Fisher has partially completed a budget sheet filling in all of the estimated expenses which apply to her. Use the budget sheet to calculate the following.

(1) a. total fixed monthly expenses

(1) b. total annual expenses

(1) c. monthly share of annual expenses

(2) d. total variable monthly expenses

(2) e. balance (Note: Brenda has a monthly net income of $3000.00.)

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 5. Ihor purchased a 9-year membership at a local health club for a cost of $472.50, not including sales tax. If the sales tax was 5.0%, how much did he pay in sales tax?

(2) 6. Gladys is elated because she just bought a new diamond ring for $1550, which represented a huge 47% discount off the regular price. Calculate the regular price of the ring.

(2) 7. The regular price of a spark plug at a local auto supply store is $1.49. This weekend, they are having a sale and the plugs are discounted 31%. Determine the sale price of each of the plugs.

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

8. Mr. R. Airdale is 23 and wants to purchase a $9000 20-payment life insurance policy. The insurance company has said they will reduce his annual premium by 9.3% because he is a nonsmoker.

(3) a. Use the table below to determine the annual premium, remembering to include the nonsmoker reduction.

Annual Premium Rates per $1000 Unit

age female	age male	term life	straight life	20-payment life	endowment 20 years
18	15	8.40	9.90	16.05	22.35
19	16	8.96	10.56	17.12	23.84
20	17	9.52	11.22	18.19	25.33
21	18	10.08	11.88	19.26	26.82
22	19	10.64	12.54	20.33	28.31
23	20	11.20	13.20	21.40	29.80
24	21	11.76	13.86	22.47	31.29
25	22	12.32	14.52	23.54	32.78
26	23	12.88	15.18	24.61	34.27
27	24	13.44	15.84	25.68	35.76
28	25	14.00	16.50	26.75	37.25
29	26	14.56	17.16	27.82	38.74
30	27	15.12	17.82	28.89	40.23
31	28	15.68	18.48	29.96	41.72
32	29	16.24	19.14	31.03	43.21
33	30	16.80	19.80	32.10	44.70

(1) b. What is the total amount that he will save over the next 15 years because he is a nonsmoker?

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Value

(2) 9. Marvin is 45 years of age. He has just purchased a $16 000.00 20-year life insurance policy. Use the table below to determine the cash surrender value of the policy when he is 55 years old.

Cash Surrender Value and Loan Value for $1000 Life Insurance

Number of years premium paid on a 20-year life insurance policy

age female	age male	5 years	10 years	15 years	20 years	65 years
20	25	47.75	122.50	234.75	325.75	756.75
25	30	57.30	147.00	281.70	390.90	718.10
30	35	66.85	171.50	328.65	456.05	679.45
35	40	76.40	196.00	375.60	521.20	640.80
40	45	85.95	220.50	422.55	586.35	602.15
45	50	95.50	245.00	469.50	651.50	563.50
50	55	105.05	269.50	516.45	716.65	524.85
55	60	114.60	294.00	563.40	781.80	486.20

UNIT 8

_____ Marks

Name of Student _____ Student I.D. # _____

Name of School _____ Date _____

Teacher Questionnaire

Course name & number _____ Teacher's name _____

Teacher's area of expertise _____ School name _____

Date _____

Design

1. The modules follows a definite systematic design. Did you find it easy to follow?

   Yes No If no, explain.

   _____

   _____

2. Did your observations reveal that the students found the design easy to follow?

   Yes No If no, explain.

   _____

   _____

3. Did you find the Learning Facilitator's Manual helpful?

   Yes No If no, explain.

   _____

   _____

4. Part of the design involves stating the objectives in student terms. Do you feel this helped the students understand what they were going to learn?

   Yes No If no, explain.

   _____

   _____

5. The activities include self-assessment questions. These questions are to help clarify and reinforce the instructional materials. Did students use the answers effectively?

   Yes No If no, explain.

   _____

   _____

6. Did the two streams of Follow-up Activites (Extra-help and Enrichment) prove to be helpful?

   Yes No If no, explain.

   _____

   _____

7. Were students motivated to try these Follow-up Activities on their own?

   Yes No If no, give details.

   _____

   _____

8. Were the assignments clear?

   Yes No If no, give details.

   _____

   _____

9. Were the assignments appropriate?

   Yes No If no, give details.

   _____

   _____

10. Did you fax assignments?

    Yes No

11. If you did fax, did you get satisfactory results from using this procedure?

    Yes No If no, give details.

    _____

    _____

    _____

Instruction

1. Did you find the instruction clear?

    Yes No If no, give details.

    _____

    _____

2. Did your observations reveal that the students found the instruction interesting?

    Yes No If no, give details.

    _____

    _____

3. Did you find the instruction adequate?

    Yes No If no, give details.

    _____

    _____

4. Was the reading level appropriate?

Yes No If no, give details.

_____

_____

5. Was the work load adequate?

Yes No If no, give details.

_____

_____

6. Was the content accurate and current?

Yes No If no, give details.

_____

_____

7. Did the content flow consistently and logically?

Yes No If no, give details.

_____

_____

8. Was the transition between booklets smooth?

Yes No If no, give details.

_____

_____

9. Was the transition between print and media smooth?

Yes No If no, give details.

Additional Comments

When you have completed this questionnaire, please mail it to the following address.

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Alberta Correspondence School
Box 4000
Barrhead, Alberta
T0G 2P0

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